ORDER NO. VSD9903M902A
D25

Service Manual

DVCPRO 50

Vol. 1

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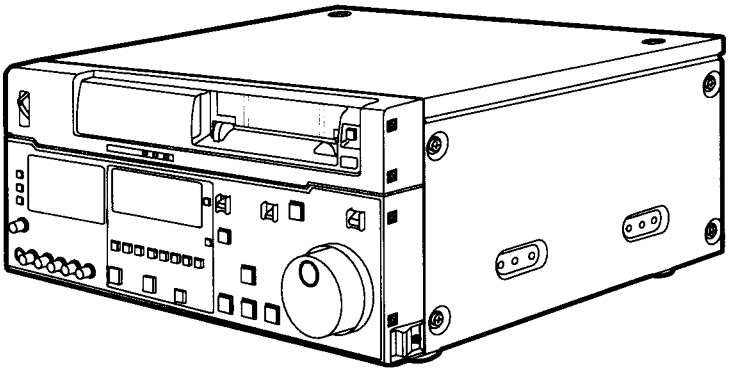
Digital Video Cassette Player

AJ-D940P/E



Please refer to the Service Manual Volume 2 (order No. VSD9903M902B) for Service Information, Electrical Adjustments and Block Diagrams.

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INTRODUCTION

This service manual contains technical information which allow service personnel to understand and service the DVCPRO Studio VTR AJ-D940.

Specifications

AJ-D940P

GENERAL

Power supply voltage	AC 120V, 50 – 60 Hz
Power consumption	215W (full operation)

Operating ambient temperature	41°F to 104°F (5°C to 40°C)
Operating ambient humidity	10% to 90% (no condensation)
Weight	37.84 lb (17.2 kg)
Dimensions	16-3/4" (W) × 6-15/16" (H) × 16-3/8" (D) (424 × 175 × 415 mm) (excluding unit's feet, jacks and jog dial)
Playback format	DVCPRO50/DVCPRO formats
Playback video signals	525i/625i selectable
Playback audio signals	DVCPRO50: 48 kHz, 16 bits, 4 channels DVCPRO: 48 kHz, 16 bits, 2 channels
Playback tracks	Digital/video/audio tracks: Helical tracks Time codes are recorded in sub-code area. Cue track: 1 track Control track: 1 track
Tape speed	67.640 mm/sec (525) 67.708 mm/sec (625)
Playback time	92 min. (using AJ-5P92LP)
Tape used	Metal tape
FF/REW time	Less than 3 min. (using AJ-5P92LP)
Search speed	±32× normal speed (color)
Digital slow	Plus direction: +1× for DVCPRO50 +2× for DVCPRO Minus direction: –1× for DVCPRO50 –2× for DVCPRO
Editing accuracy	±0 frame (using time code)
Tape timer accuracy	±1 frame (using continuous CTL signal)
Servo lock time	Less than 0.5 sec (color framing/standby ON)

VIDEO

Sampling frequencies	DVCPRO50 525i/625i: Y; 13.5 MHz/PB, PR; 6.75 MHz
Quantizing	8 bits
Video compression method	DCT + adaptive quantizing + variable length code
Video compression rate	DVCPRO50: 1/3.3 DVCPRO: 1/5
Error correction	Reed-Solomon product code
Video recording bit rate	DVCPRO50: 50 Mbps DVCPRO: 25 Mbps

Analog Component Output Video

Video bandwidth (see Note 1)	525i: Y; 30 Hz to 5.5 MHz (±0.5 dB), 5.75 MHz (–2.0 dB) PB, PR; 30 Hz to 2.5 MHz (±0.5 dB), 2.75 MHz (–2.0 dB) 625i: Y; 25 Hz to 5.5 MHz (±0.5 dB), 5.75 MHz (–2.0 dB) PB, PR; 25 Hz to 2.5 MHz (±0.5 dB), 2.75 MHz (–2.0 dB) (Note 1: When playing back a tape recorded with digital input signals)
S/N ratio	Better than 60 dB
K factor (2T)	Less than 1%

Video Input Connectors

Reference input	Analog composite, BNC × 2, loop-through, 75Ω ON/OFF selectable

Specifications AJ-D940P

Video Output Connectors

Analog component output	BNC × 3 (Y, PB, PR) Y: 1.0 Vp-p, 75Ω PB, PR: 0.525/0.757 Vp-p switchable, 75Ω (75% color bar, 0% setup)
Analog composite output	BNC × 3, video 1, video 2, video 3 (superimpose ON/OFF)
Serial digital component output	BNC × 3, complies with the SMPTE259M-C standard SDI 1, SDI 2, SDI 3 (superimposed ON/OFF)
SDTI output (option)	BNC × 1, complies with the SMPTE305M standard (use of SDI 1 output connector shared)

Video Signal Adjustment Ranges

Video output gain	±3 dB
Video output chroma gain	±3 dB
Video output chroma phase	±30°
Video output setup	±14 IRE
Video output sync phase	±15 µsec
Video output SC phase	±180°

AUDIO

Digital Audio

Sampling frequency	48 kHz (synchronized with video)
Quantizing	16 bits
Frequency response	20 Hz to 20 kHz ±1.0 dB (at reference level)
Dynamic range	Better than 90 dB (1 kHz, emphasis OFF, A weighted)
Distortion	Less than 0.05% (1 kHz, emphasis OFF, reference level)
Crosstalk	Less than –80 dB (1 kHz, between 2 channels)
Wow & flutter	Below measurable limit
Head room	525i: 20 dB 625i: 18 dB
De-emphasis	T1 = 50 µsec, T2 = 15 µsec (selected automatically)

Cue Track

Frequency response	300 Hz to 6 kHz ±3 dB

Audio Output Connectors

Analog output (CH1/CH2/CH3/CH4)	XLR × 4, low impedance, +4/0/–20 dBu, selectable using menu item setting
Digital output (CH1/CH2, CH3/CH4)	XLR × 2, AES/EBU format
Serial digital output	Complies with SMPTE259M-C/272M standard (BNC, 75Ω)
Cue track output	XLR × 1, low impedance, +4/0/–20 dBu, selectable using menu item setting
Monitor output	XLR × 2, low impedance, +4/0/–20 dBu, selectable using menu item setting
Headphones output	1/4" phone, 8Ω, variable level

Other Input/Output Signal Connectors

Time code output	XLR ×1, 2.0 Vp-p, low impedance
RS-422A input	D-sub 9-pin, RS-422A interface
RS-422A output	D-sub 9-pin, RS-422A interface
RS-232C	D-sub 25-pin, RS-232C interface
Parallel input/output	D-sub 25-pin
Encoder remote	D-sub 15-pin

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

AJ-D940P

IMPORTANT
"Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION:
To reduce the risk of fire or shock hazard and annoying interference, use the recommended accessories only.

WARNING:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL BOARD TO AUTHORIZED SERVICE PERSONNEL.

FCC Note:
This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

☐ is the safety information.

- Do not insert fingers or any objects into the video cassette holder.
- Avoid operating or leaving the unit near strong magnetic fields. Be especially careful of large audio speakers.
- Avoid operating or storing the unit in an excessively hot, cold, or damp environment as this may result in damage both to the unit and to the tape.
- Do not spray any cleaner or wax directly on the unit.
- If the unit is not going to be used for a length of time, protect it from dirt and dust.
- Do not leave a cassette in the unit when not in use.
- Do not block the ventilation slots of the unit.
- Use this unit horizontally and do not place anything on the top panel.
- Do not attempt to disassemble the unit.
  There are no user serviceable parts inside.
- If any liquid spills inside the recorder, have the unit examined for possible damage.
- Refer any needed servicing to authorized service personnel.

IMPORTANT
"Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

- **THIS APPARATUS MUST BE EARTHED**
  To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal house-hold wiring.
  Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.
  The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

- **DO NOT REMOVE PANEL COVER BY UN-SCREWING**
  To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. And do not insert fingers or any other objects into the video cassette holder.

CAUTION:

Do not install or place this unit in a bookcase, built in cabinet or in another confined space in order to keep well ventilated condition. Ensure that curtains and any other materials do not obstruct the ventilation condition to prevent risk of electric shock or fire hazard due to overheating.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSOIRES ONLY.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL BOARD TO QUALIFIED SERVICE PERSONNEL.

Operating precaution

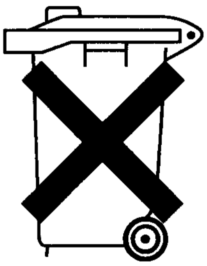
Operation near any appliance which generates strong magnetic fields may give rise to noise in the video and audio singals. If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

☐ is the safety information.

Attention/Attentie

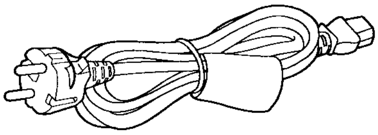
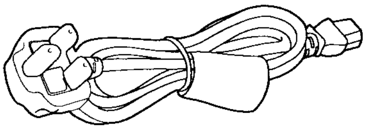
- This apparatus contains a lithium battery for memory back-up.
- For the removal of the battery at the moment of the disposal at the end of the service life please consult your dealer.
- Do not throw away the battery. Instead, hand it in as hazardous waste.

- Dit apparaat bevat een lithiumbatterij voor memory back-up.
- Raadpleeg uw leverancier over de verwijdering van de batterij op het moment dat u het apparaat bij einde levensduur afdankt.
- Gooi de batterij niet weg, maar lever hem in als KCA.



Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.
This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.
Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

FOR CONTINENTAL EUROPE, ETC.	**FOR U.K. ONLY**
Not to be used in the U.K. 	If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted. 

FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 13 amp fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.
WARNING: THIS APPLIANCE MUST BE EARTHED.
IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

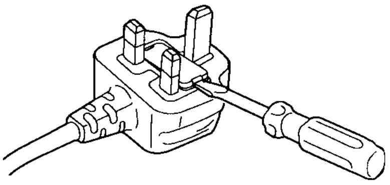
Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

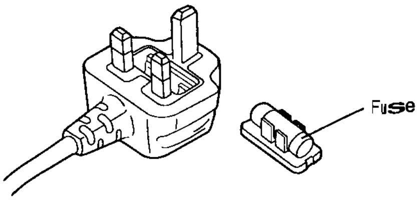
- The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol ⏚ or coloured GREEN or GREEN-AND-YELLOW.
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



Specifications

AJ-D940E

GENERAL

Power supply voltage	AC 220 – 240V, 50 – 60 Hz
Power consumption	215W (full operation)

Operating ambient temperature	5°C to 40°C
Operating ambient humidity	10% to 90% (no condensation)
Weight	17.4 kg
Dimensions	424 (W) x 175 (H) x 415 (D) mm (excluding unit's feet, jacks and jog dial)
Playback format	DVCPRO50/DVCPRO formats
Playback video signals	625i/525i selectable
Playback audio signals	DVCPRO50: 48 kHz, 16 bits, 4 channels DVCPRO: 48 kHz, 16 bits, 2 channels
Playback tracks	Digital/video/audio tracks: Helical tracks Time codes are recorded in sub-code area. Cue track: 1 track Control track: 1 track
Tape speed	67.708 mm/sec (625i) 67.640 mm/sec (525i)
Playback time	92 min. (using AJ-5P92LP)
Tape used	Metal tape
FF/REW time	Less than 3 min. (using AJ-5P92LP)
Search speed	±32x normal speed (colour)
Digital slow	Plus direction: +1x for DVCPRO50 +2x for DVCPRO Minus direction: –1x for DVCPRO50 –2x for DVCPRO
Editing accuracy	±0 frame (using time code)
Tape timer accuracy	±1 frame (using continuous CTL signal)
Servo lock time	Less than 0.5 sec (colour framing/standby ON)

VIDEO

Sampling frequencies	DVCPRO50 625i/525i: Y; 13.5 MHz/PB, PR; 6.75 MHz
Quantizing	8 bits
Video compression method	DCT + adaptable quantizing + variable length code
Video compression rate	DVCPRO50: 1/3.3 DVCPRO: 1/5
Error correction	Reed-Solomon product code
Video recording bit rate	DVCPRO50: 50 Mbps DVCPRO: 25 Mbps

Analogue Component Output Video

Video bandwidth (see Note 1)	625i: Y; 25 Hz to 5.5 MHz (±0.5 dB), 5.75 MHz (–2.0 dB) PB, PR; 25 Hz to 2.5 MHz (±0.5 dB), 2.75 MHz (–2.0 dB) 525i: Y; 30 Hz to 5.5 MHz (±0.5 dB), 5.75 MHz (–2.0 dB) PB, PR; 30 Hz to 2.5 MHz (±0.5 dB), 2.75 MHz (–2.0 dB) (Note 1: When playing back a tape recorded with digital input signals)
S/N ratio	Better than 60 dB
K factor (2T)	Less than 1%

Video Input Connectors

Reference input	Analogue composite, BNC x 2, loop through, 75Ω ON/OFF selectable

Video Output Connectors

Analogue component output	BNC × 3 (Y, PB, PR) Y: 1.0 Vp-p, 75Ω PB, PR: 0.7 Vp-p, 75Ω (100% colour bar)
Analogue composite output	BNC × 3, video 1, video 2, video 3 (superimpose ON/OFF)
Serial digital component output	BNC × 3, complies with the EBU Tech. 3267-E standard SDI 1, SDI 2, SDI 3 (superimposed ON/OFF)
SDTI output (option)	BNC × 1, complies with the SMPTE 305M standard (use of SDI 1 output connector shared)

Video Signal Adjustment Ranges

Video output gain	±3 dB
Video output chroma gain	±3 dB
Video output chroma phase	±30°
Video output setup	±100 mV
Video output sync phase	±15 µsec
Video output SC phase	±180°

AUDIO

Digital Audio

Sampling frequency	48 kHz (synchronized with video)
Quantizing	16 bits
Frequency response	20 Hz to 20 kHz ±1.0 dB (at reference level)
Dynamic range	Better than 90 dB (1 kHz, emphasis OFF, "A" weighted)
Distortion	Less than 0.05% (1 kHz, emphasis OFF, reference level)
Crosstalk	Less than –80 dB (1 kHz, between 2 channels)
Wow & flutter	Below measurable limit
Head room	625i: 18 dB 525i: 20 dB
De-emphasis	T1 = 50 µsec, T2 = 15 µsec (selected automatically)

Cue Track

Frequency response	300 Hz to 6 kHz ±3 dB

Audio Output Connectors

Analogue output (CH1/CH2/CH3/CH4)	XLR × 4, low impedance, +4/0/–20 dBu, selectable using menu item setting*
Digital output (CH1/CH2, CH3/CH4)	XLR × 2, AES/EBU format
Serial digital output	Complies with EBU Tech. 3267-E standard (BNC, 75Ω)
Cue track output	XLR × 1, low impedance, +4/0/–20 dBu, selectable using menu item setting*
Monitor output	XLR × 2, low impedance, +4/0/–20 dBu, selectable using menu item setting*
Headphones output	6.35 mm, 8Ω, variable level

Other Input/Output Signal Connectors

Time code output	XLR × 1, 2.0 Vp-p, low impedance
RS-422A input	D-sub 9-pin, RS-422A interface
RS-422A output	D-sub 9-pin, RS-422A interface
RS-232C	D-sub 25-pin, RS-232C interface
Parallel input/output	D-sub 25-pin
Encoder remote	D-sub 15-pin

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

* EG model is fixed to –3 dBu.

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1MΩ and 5.2MΩ.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞.

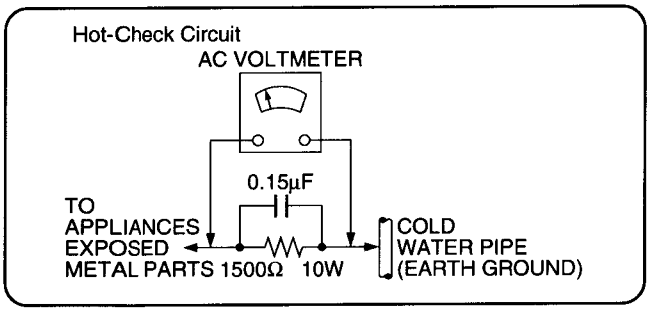

Hot-Check Circuit
AC VOLTMETER
0.15µF
TO APPLIANCES EXPOSED METAL PARTS
1500Ω 10W
COLD WATER PIPE (EARTH GROUND)

Figure 1

LEAKAGE CURRENT HOT CHECK (See Figure 1.)

1. Plug the AC cord directly into the AC outlet.
   Do not use an isolation transformer for this check.
2. Connect a 1.5kΩ, 10 W resistor, in parallel with a 0.15µF capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

1. The potential source of X-Radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltage meter.

3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ± 0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

MEMO

SECTION 1

OPERATING INSTRUCTIONS

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Operating instruction for AJ-D940P

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Before attempting to operate the unit, check that all the accessories are present and accounted for.

Power cord....1 pc

Options
- AJ-CS750P cassette adapter
- AJ-MA75P rack-mounting adapters

Introduction and Features

The AJ-D940 is a multi-purpose studio digital VTR which uses 1/4-inch wide compact cassette tapes and which is designed exclusively for slow-motion playback with a high picture quality at a 50 Mbps video recording rate. It is capable of playing back existing DVCPRO (25 Mbps) cassette tapes as well. It is equipped with a 525/625 switchable function to enable it to be operated as a studio VTR anywhere in the world.
This VTR with its high picture quality, which is due to the incorporation of digital compression technology, significantly reduces the deterioration in the quality of both sound and pictures which accompanies dubbing operations. Its compact 4U size and light-weight design makes it easy for the unit to be carried around and installed in a 19-inch rack.
A dialogue system enables the unit's setup settings to be performed while monitoring the on-screen menus that appear on the TV monitor.

Features

Compact size and light weight

This digital VTR has a 4U size. This means that it is easy to install it in a 19-inch rack, too, if the rack-mounting adapters (optional accessory, AJ-MA75P) are used.

Up to 92 minutes of playback time

Two sizes of cassette tape, the M size (for up to 33 minutes of playback time) and L size (for up to 92 minutes of playback time), can be used with this unit.
The tape has a 1/4-inch width for a compact design.

High picture quality

A high picture quality is achieved using 4:2:2 component signals whose recording rate is twice as high as that of the existing DVCPRO format.

525i/625i switchable function

By setting the 525i/625i selector switch to the setting that corresponds to the TV system of the signals (525i or 625i) recorded on the tape, the signals of either TV system can be played back.

Compatibility with DVCPRO format

Tapes recorded using the existing DVCPRO format can be played back on this unit.

Compatibility with general consumer video equipment

Cassette tapes designed for general consumer applications containing material shot by a consumer digital camera can be played back on this unit if the cassette adapter (optional accessory, AJ-CS750P) is used.
<Note>
Tapes recorded in the LP consumer mode cannot be played back.

Digital slow motion/dial jog functions

Using Panasonic's very own digital slow-motion technology, pictures played back in slow motion at the following speeds can be reproduced clearly.

DVCPRO50 (50 Mbps):	–1× to +1× speed
DVCPRO (25 Mbps):	–2× to +2× speed
DV:	±0.03×, ±0.07×, ±0.1×, ±0.2×, ±0.4× to ±1×

Dial shuttle function

Shuttle operations enable color pictures to be played back in the forward or reverse direction at a maximum of 32 times the normal tape speed.

Time code

The unit contains a time code reader (TCR).

Features
(continued)

Multi-functional interface capability

- **Serial digital output**
  The unit is equipped with a component serial interface connector to enable interfacing with serial digital component signals. (SMPTE 259M-C, 272M)
- **Analog video output**
  Both component (Y, P_B, P_R) and composite output connectors are provided.
- **AES/EBU audio output**
  The unit comes with digital audio output connectors.
- **SDTI output (option)**
- **9-pin RS-422A/RS-232C remote**
  In addition to the standard 9-pin serial remote (RS-422A) connector, both RS-232C and 25-pin parallel remote connectors are provided.

4-channel digital audio for high sound quality

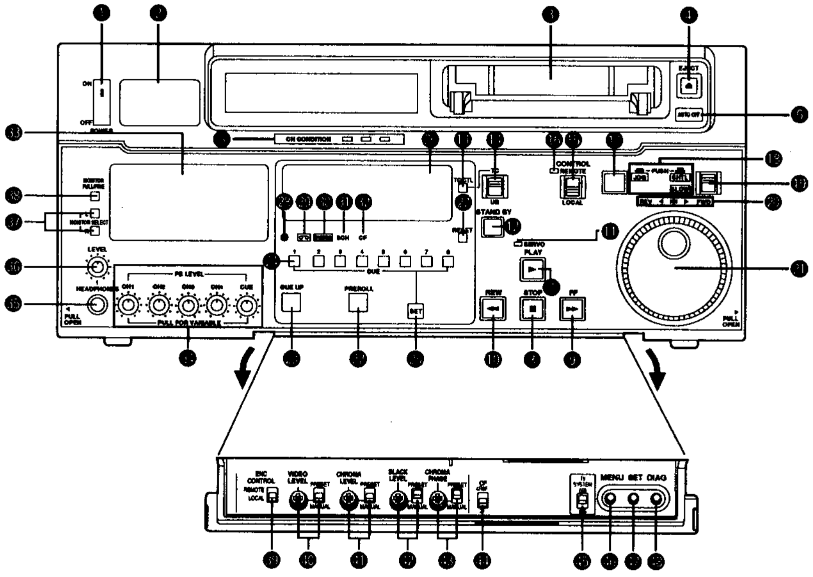
A 4-channel PCM audio capability plus another channel for the analog cue track is featured.

Menu-operated setup

The settings for the setup prior to operating the unit are performed while viewing the setup menus which appear on the unit's display or the TV monitor.

Parts and Their Functions

Front panel


ON
OFF
POWER
EJECT
CH CONDITION
CONTROL
REMOTE
LOCAL
STAND BY
SERVO
PLAY
REW
STOP
FF
LEVEL
HEADPHONES
CH1
CH2
CH3
CH4
CUE
PB LEVEL
PULL FOR VARIABLE
CUE UP
PREROLL
SET
PULL OPEN
ENC CONTROL
REMOTE
LOCAL
VIDEO LEVEL
CHROMA LEVEL
BLACK LEVEL
CHROMA PHASE
PRESET
MANUAL
MENU SET DIAG

<Front panel top area>

❶ **POWER switch**

❷ **TV system and format display**
The selected TV system and format are displayed here.
<525/625>
525: This lights when the 525 TV system is selected.
625: This lights when the 625 TV system is selected.
<25 Mbps/50 Mbps>
25 Mbps: This indicates the DVCPRO (25 Mbps) and DV playback mode.
In the case of the DVCPRO (25 Mbps) playback mode, the DVCPRO (25 Mbps) cassette playback display lamp ㉚ in the center of the front panel also lights.
50 Mbps: This indicates the DVCPRO50 (50 Mbps) playback mode.

❸ **Cassette insertion slot**

❹ **EJECT button**
When this button is pressed, the tape inside is unloaded and several seconds later it is automatically ejected.
If the counter display area is set to the CTL display, the display will be reset.

❺ **Channel condition lamps**
One of these lamps lights in accordance with the error rate statuses. (Green→Amber→Red)
Green: This lamp lights when the error rates for both the video and audio playback signals are at an acceptable level.
Amber: This lamp lights when the error rate for either the video and audio playback signals has deteriorated. A normal playback picture will appear even when this lamp is lighted.
Red: This lamp lights when either the video or audio playback signals are subject to correction or interpolation.

❻ **AUTO OFF lamp**
This lights when trouble has occurred in the unit's operation.

<Front panel center>

❼ **PLAY button**
This button is pressed to commence playback.

❽ **STOP button**
This button is pressed to stop the tape travel.
The tape drum continues to rotate even in the stop mode, and the tape remains in close contact with the drum.
When the stop mode continues beyond the prescribed period of time, the unit is automatically set to the standby OFF mode in order to protect the tape.
The stop mode is established immediately after a cassette has been inserted into the unit.

❾ **FF button (see *[1])**
This button is pressed to fast forward the tape.

❿ **REW button (see *[1])**
This button is pressed to rewind the tape.

⓫ **SERVO lamp**
This lamp lights when the drum servo and capstan servo lock.

⓬ **STANDBY button**
While the same level of tape tension is applied as in the regular stop mode and the head drum continues to rotate, the lamp in the button lights to indicate that the standby ON mode is established.
The tape is set to the half-loading mode when the standby OFF mode is established.
When this button is pressed in the stop mode, the standby OFF mode is established and the tape is set to the half-loading mode. At this time, the lamp in the button will go off.
When the stop mode continues beyond the prescribed period of time, the unit is automatically set to the standby OFF mode in order to protect the tape.
When either this button or the STOP button is pressed in the standby OFF mode, the standby ON mode is established. When a function button other than the STOP button is pressed, the tape will be set to the mode corresponding to the pressed button.
The time taken for operation to transfer to the standby OFF mode can be set on-screen.

⓭ **TC/CTL switch**
When this switch is pressed, what appears on the counter display changes from TC to CTL or vice versa. When TC is selected, either the TC or UB value will be displayed depending on the position to which the TC/UB switch has been set.

⓮ **TC/UB switch**
This selector switch is used to indicate either the TC value or UB value on the counter display area when the TC/CTL switch has been set to the TC position.

⓯ **REMOTE/LOCAL switch**
This switch is provided to enable the unit to be controlled from an external source using the REMOTE, RS-232C or parallel connector.
REMOTE: Set here when the unit is to be controlled using the 9-pin REMOTE, RS-232C or parallel remote connector.
LOCAL: Set here when the unit is to be controlled using the controls on its operation panel.

*[1] The fast forward or rewind speed can be selected using setup menu item No. 102 (FF.REW MAX).

<Front panel center>

⑯ REMOTE lamp

This lamp lights when the REMOTE setting has been selected by the REMOTE/LOCAL switch.

⑰ Search button

This button is pressed to establish the search mode.

When this button is pressed after the search dial is set to the shuttle mode and turned to the desired position, playback will commence at the speed which has been set by the search dial.

⑱ JOG, SHTL and SLOW lamps

These lamps indicate the current status of the search dial and SHTL/SLOW switch.

JOG: This lights when the JOG mode is established.

SHTL (shuttle): This lights when the SHTL mode is established.

SLOW: This lights when the VAR mode is established.

⑲ SHTL/SLOW switch

This selector switch is set when the search dial is to be used for SHTL or VAR purposes.

⑳ REV, STILL and FWD lamps

These lamps light in accordance with the search dial operation.

REV: This lights when the dial is rotated counterclockwise, and if the search button lamp is also lighted at this time, the tape travels in the reverse direction.

STILL: In the JOG mode this lights when the dial rotation is stopped, and if the search button lamp is also lighted at this time, the tape also stops traveling.
In the shuttle mode, it lights when the dial is at the STILL position.

FWD: This lights when the dial is rotated clockwise, and if the search button lamp is also lighted at this time, the tape travels in the forward direction.

㉑ Search dial

This dial is used to locate the edit points.

Each time the dial is pressed, the shuttle mode or jog mode is selected alternately, and the JOG, SHTL or SLOW lamp lights.

When the unit's power is turned on, the search dial will not work unless it is first returned to the STILL position.

SHTL (shuttle) mode: If the dial is rotated and stopped at the desired position when the SHTL/SLOW switch has been set to SHTL, the tape can be played back at the speed that corresponds to the angle to which the dial has been rotated. A still picture will appear when the dial is set to its center position.
When the SHTL/SLOW switch has been set to SLOW, the tape will travel at the −4.1× speed if the dial is rotated counterclockwise as far as it will go, a still picture will appear when it is set to its center position, and the tape will travel at the +4.1× speed if the dial is rotated clockwise as far as it will go. The maximum speed at the SLOW setting can be selected by setup menu item No. 320 (VAR FWD MAX) or No. 321 (VAR REV MAX).

Jog mode: The dial's clickstop positions are cleared, and the tape is played back at the speed (see *1) that corresponds to the speed with which the dial is rotated.

*1 DVCPRO50 (50 Mbps): −1× to +1× speed
DVCPRO (25 Mbps): −2× to +2× speed
DV: −1× to +1× speed

<Front panel center>

㉒ PREROLL button

This button is used to cue the tape for a transmission, etc.

If it is pressed when a CUE point has been selected (when the CUE lamp is flashing), the tape is prerolled to the CUE point, and a still picture appears on the screen.

If it is pressed when a CUE point has not been selected, the tape will be prerolled from the point where the button was pressed, and a still picture will appear on the screen.

- The preroll time can be set using setup menu item No. 000 (P-ROLL TIME).

㉓ CUE UP button

This button is used to cue the tape for a transmission, etc.

If it is pressed when a CUE point has been selected (when the CUE lamp is flashing), the tape is prerolled to the CUE point, and a still picture appears on the screen.

If it is pressed when a CUE point has not been selected, the tape will be prerolled from the point where the button was pressed, and a still picture will appear on the screen.

- The preroll time can be set using setup menu item No. 016 (CU-ROLL TIME).

㉔ CUE buttons 1 through 8

These buttons are used to enter, check or erase cue points.

When a button is pressed at a cueing position on the tape, the cue point will be entered in that button.

To check a cue point which has been entered, press the CUE button in which the point was entered.

To erase a cue point, press the RESET button while holding down the CUE button.

㉕ SET button

This button is used when cue points are to be entered or erased.

When it is pressed at the cueing position, the cue point will be entered and the corresponding CUE button's lamp will light. When it is pressed at positions to which the tape is be successively cued, the CUE buttons in which no cue points have been entered will light in sequence starting with the lowest number, and the cue points will be entered.

When the RESET button is pressed while the SET button is held down, all the registered cue points will be deleted.

㉖ Counter display area

The TC and CTL count values as well as the messages and other on-screen information appear on the counter display area.

㉗ RESET button

When this button is pressed in the CTL mode, the display is cleared to "00:00:00:00."

㉘ Warning lamp

This lamp lights when a warning is issued.

㉙ Cassette insertion display lamp

This lamp lights when a cassette has been inserted into the unit.

㉚ DVCPRO (25 Mbps) cassette playback display lamp

This lamp lights when a cassette recorded using the DVCPRO (25 Mbps) format is played back.

㉛ SCH lamp

This lamp lights when the SCH phase of the external sync signal is within the specified range.

<Front panel center>

㉜ **CF lamp**
This lamp lights when the color framing is locked.

㉝ **Level meter**
The playback levels for channels 1, 2, 3 and 4 of the PCM audio signals and for the cue track signals are displayed by this meter.

㉞ **Audio output level controls**
These controls are used to adjust the playback levels for channels 1, 2, 3 and 4 of the PCM audio signals and for the cue track signals.
They use a "pull to vary level" system which means that the levels can be adjusted after they have been pulled up. The unity (default) levels apply when they are pushed down.

㉟ **Headphones jack**
When a pair of stereo headphones are connected to this jack, the sound being played back can be monitored through the headphones.

㊱ **Volume control**
This control is used to adjust the headphones volume and monitor output volume.
Setup menu item No. 713 (MONI OUT) can be used to set whether the headphones output and monitor output are to be linked together or separated. (However, the headphones are always linked to the monitor output.) When the two outputs are separated, the monitor output is set the unity (default) level.

㊲ **MONITOR SELECT switches**
These switches are used to select the audio signals which are to be output to the monitor L and R channels.
Each time the "L" button is pressed, the signals which are to be output to the monitor L channel are switched in the following sequence: CH1, CH2, CH3, CH4, CUE, CH1, etc.
[This switching is disabled when CH1+2 or CH3+4 has been selected as the setup menu item No. 729 (MONI MIX L) setting.]
Each time the "R" button is pressed, the signals which are output to the monitor R channel are switched in the following sequence: CH1, CH2, CH3, CH4, CUE, CH1, etc.
[This switching is disabled when CH1+2 or CH3+4 has been selected as the setup menu item No. 730 (MONI MIX R) setting.]
The signals which have been selected are indicated by the L or R lamps which light on the level meter display area. [When AUTO has been selected as the setup menu item No. 721 (MONI CH SEL) setting, the display is switched in tandem with the monitor output.]

㊳ **METER (FULL/FINE) selector switch**
This switch is used to select the scale display on the audio level meter.
FULL mode: The standard scale (ranging from –∞ to 0 dB) is selected.
FINE mode: The scale in 0.5 dB increments is selected.

<Front panel bottom>

㊴ **ENCODER CONTROL switch**
This switch is used to select whether the adjustments of the video output signals are to be performed using the controls either on the unit or on an external encoder remote controller.
REMOTE: The video output signals are adjusted using the controls on the external encoder remote controller.
LOCAL: The video output signals are adjusted using the controls on the unit.

㊵ **VIDEO LEVEL control and switch**
These enable the video level to be adjusted when the ENCODER CONTROL switch has been set to the LOCAL position.
When the VIDEO LEVEL switch is set to PRESET, the video level is set to the unity (0 dB) level. When it is set to MANUAL, the video level can be adjusted using the control.

㊶ **CHROMA LEVEL control and switch**
These enable the chroma level to be adjusted when the ENCODER CONTROL switch has been set to the LOCAL position.
When the CHROMA LEVEL switch is set to PRESET, the chroma level is set to the unity (0 dB) level. When it is set to MANUAL, the chroma level can be adjusted using the control.

㊷ **SET UP LEVEL control and switch**
These enable the setup level to be adjusted when the ENCODER CONTROL switch has been set to the LOCAL position.
When the SET UP LEVEL switch is set to PRESET, the setup level is set to the unity (0 IRE) level. When it is set to MANUAL, the set-up level can be adjusted using the control.

㊸ **HUE LEVEL control and switch**
These enable the hue to be adjusted when the ENCODER CONTROL switch has been set to the LOCAL position.
When the HUE LEVEL switch is set to PRESET, the hue is set to the unity (0°) level. When it is set to MANUAL, the hue can be adjusted using the control.

㊹ **CF switch**
This switch is used to select either 4- or 8-field or 2-field increments for the playback framing lock.
4F/8F: 525 mode = The framing is locked in 4-field increments.
625 mode = The framing is locked in 4 or 8-field increments. The setup menu item No. 108 (CAP.LOCK) setting is used to switch between 4-field or 8-field increments.
2F: The framing is locked in 2-field increments.

㊺ **TV SYSTEM selector switch**
This switch is used to select the TV system. For this setting to take effect, the power must be turned off and then turned back on.
525: The 525 interlace/59.94 Hz TV system is selected.
625: The 625 interlace/50 Hz TV system is selected.
For playback, make sure that the switch is set to the position that corresponds to the TV system, 525i or 625i, which was used when the tape was recorded.

<Front panel bottom>

㊻ MENU button

When this button is pressed, the setup menu appears on the TV monitor (but only when the VIDEO OUT 3 connector is used), and the setup menu number appears on the unit's display. When it is pressed again, the setup menu setting is exited and the original operation is restored.

㊼ SET button

When this button is pressed, the data which has been set on the setup menu is entered. After the data has been entered, the setup menu setting is exited and the original operation is restored.

㊽ DIAG button

When this button is pressed, the VTR information is displayed. When it is pressed again, the original display is restored.

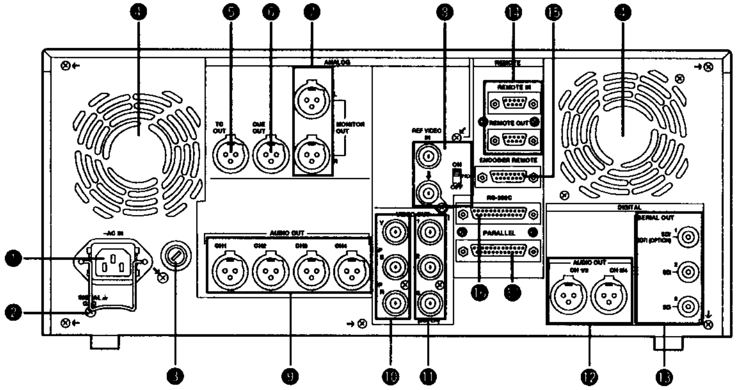
The VTR information consists of the HOUR METER information and WARNING information. The search button is pressed to switch between the displays of the two types of information.

Displayed on the HOURS METER screen are the deck's serial number, power-on time, drum rotation time, tape travel time, number of times the cassette has been loaded, and the number of times the power has been switched on and off.

Displayed on the WARNING screen is the nature of the warnings issued.

Parts and Their Functions

Connector panel


❹
❺
❻
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⓮
⓯
❹
❶
❷
❸
❾
❿
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⓬
⓭
⓱
⓰
ANALOG
TC OUT
CUE OUT
MONITOR OUT
REF VIDEO IN
ON
OFF
REMOTE
REMOTE IN
REMOTE OUT
ENCODER REMOTE
RS-232C
PARALLEL
AC IN
SIGNAL GND
AUDIO OUT
CH1
CH2
CH3
CH4
VIDEO OUT
DIGITAL
SERIAL OUT
SDI (OPTION)
SDI
AUDIO OUT
CH 1/2
CH 3/4

<Connector panel>

❶ **AC IN socket**
This is connected to the power outlet using the accessory power cord.

❷ **SIGNAL GND terminal**
This is connected to the signal ground terminal on the connected component for noise reduction purposes. It is not a safety ground.

❸ **Fuse holder**
This contains a fuse.

❹ **Fan motor**
This motor drives the fan that cools down the unit.
The ● lamp lights when trouble in some form or other has caused the fan motor to shut down. If operation is continued while this warning condition persists, the temperature inside the deck will rise, and once it has exceeded the safe temperature level, all the unit's operations will be shut down.

❺ **TIME CODE OUT connector**
The playback time code signals are output from this connector.

❻ **CUE OUT connector**
The analog signals recorded on the CUE track are output from this connector.

❼ **MONITOR OUT connectors**
The PCM audio signals of CH1, CH2, CH3 and CH4 or the playback signals from the CUE track are output from this connector.

❽ **REF VIDEO IN connectors and 75Ω termination switch**
These are the input connectors for the reference video signal.
Supply a composite video signal such as a black burst signal complying with the broadcast standards (see *1). Set the switch to ON for a 75Ω termination.
*1 525: RS-170A
625: CCIR624

❾ **ANALOG AUDIO OUT connectors**
The analog audio signals are output from these connectors.

❿ **ANALOG COMPONENT VIDEO OUT connectors**
The analog component video signals are output from these connectors.

⓫ **ANALOG COMPOSITE VIDEO OUT connectors**
The analog composite video signals are output from these connectors. Video signals with superimposed characters can be output from the VIDEO OUT 3 connector. Use setup menu item No. 007 (SUPER) to select ON or OFF as the superimposed character setting.

⓬ **DIGITAL AUDIO OUT connectors**
Digital audio signals complying with the AES/EBU standards are output from these connectors.

⓭ **SERIAL DIGITAL COMPONENT AUDIO/VIDEO OUT connectors**
Digital component audio and video signals complying with the SMPTE 259M-C/272M standards are output from these connectors.

<Connector panel>

⓮ **Remote control connectors**
The unit can be operated from an external source when it is connected with another player for deck-to-deck editing or with an external controller. There are two remote control connectors, one for input signals (IN) and the other for output signals (OUT).
IN: To be connected with an external controller.
To be connected for deck-to-deck operations.
OUT: To be connected for parallel run operations.
To be used for loop-through applications.

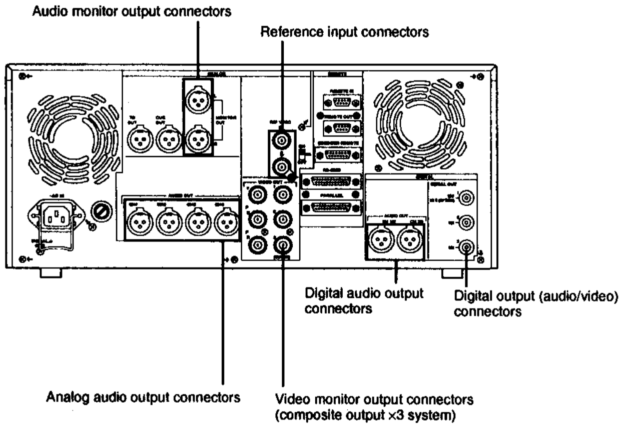
⓯ **ENCODER REMOTE connector**
This is connected to an external encoder remote controller when the video output signal settings are to be adjusted from an external source.

⓰ **RS-232C connector**

⓱ **PARALLEL REMOTE connector**
This is used when the unit is to be operated from an external source.

Connections using one unit

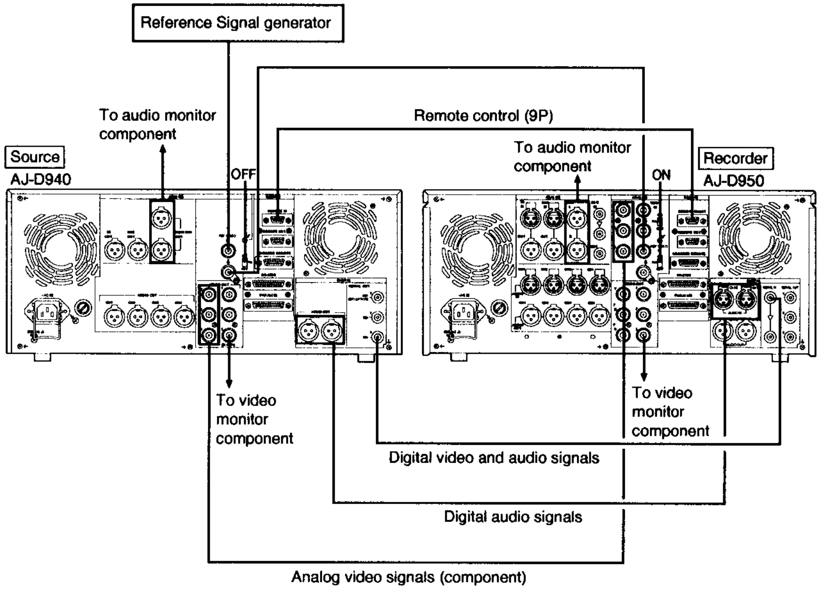
Set the CONTROL switch on the front panel to LOCAL.


Audio monitor output connectors
Reference input connectors
Digital audio output connectors
Digital output (audio/video) connectors
Analog audio output connectors
Video monitor output connectors (composite output ×3 system)

Example of connections when the unit is used as the source machine for editing (deck-to-deck editing)

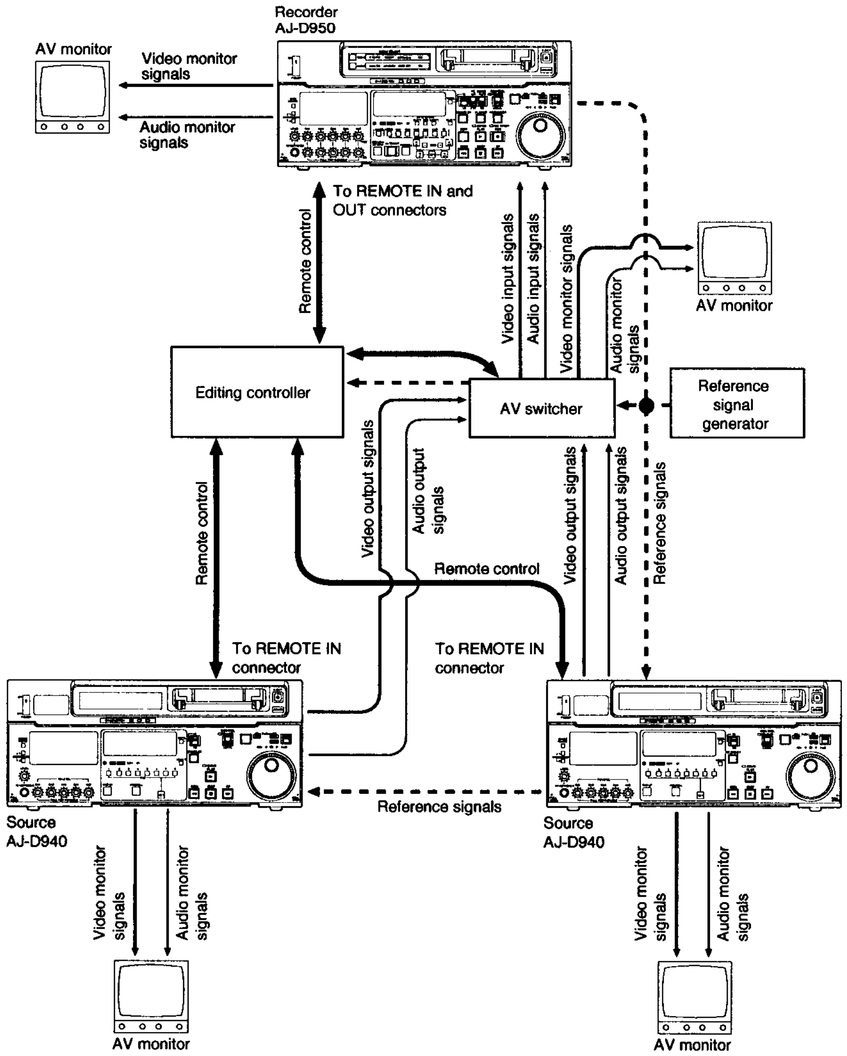
Source unit: Set the CONTROL switch on the front panel to REMOTE.

Recorder unit: Set the CONTROL switch on the front panel to LOCAL.


Reference Signal generator
To audio monitor component
Remote control (9P)
To audio monitor component
Source
AJ-D940
OFF
ON
Recorder
AJ-D950
To video monitor component
To video monitor component
Digital video and audio signals
Digital audio signals
Analog video signals (component)

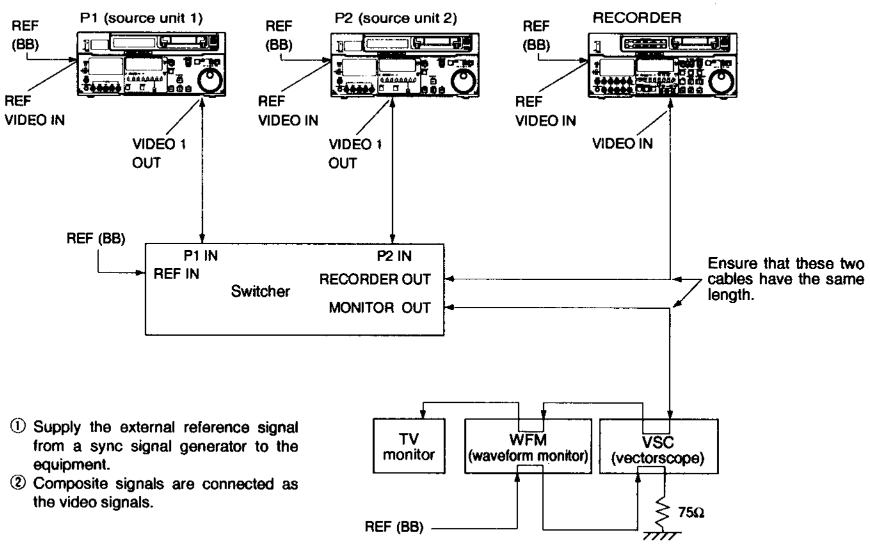
AJ-D950:
The analog input/output signal interface kit board (optional accessory) must be installed for use.

Example of connections with an editing controller


Recorder
AJ-D950
AV monitor
Video monitor signals
Audio monitor signals
To REMOTE IN and OUT connectors
Remote control
Video input signals
Audio input signals
Video monitor signals
Audio monitor signals
AV monitor
Editing controller
AV switcher
Reference signal generator
Remote control
Video output signals
Audio output signals
Remote control
Video output signals
Audio output signals
Reference signals
To REMOTE IN connector
To REMOTE IN connector
Reference signals
Source
AJ-D940
Source
AJ-D940
Video monitor signals
Audio monitor signals
Video monitor signals
Audio monitor signals
AV monitor
AV monitor

<Note>
If an editing controller made by CMX is to be used, steps must be taken at the editing controller side to support it.

Connections for adjusting the video output signals (encoder output)

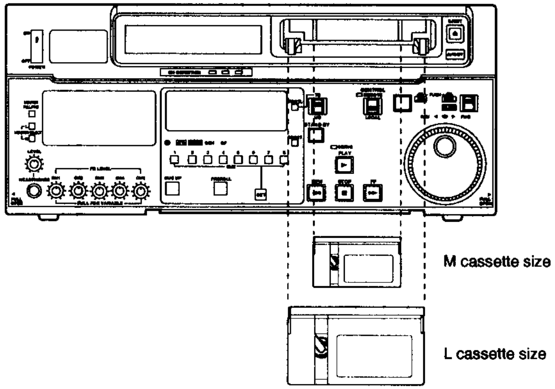

REF (BB)
P1 (source unit 1)
REF VIDEO IN
VIDEO 1 OUT
REF (BB)
P2 (source unit 2)
REF VIDEO IN
VIDEO 1 OUT
REF (BB)
RECORDER
REF VIDEO IN
VIDEO IN
REF (BB)
P1 IN
P2 IN
REF IN
Switcher
RECORDER OUT
MONITOR OUT
Ensure that these two cables have the same length.
TV monitor
WFM (waveform monitor)
VSC (vectorscope)
REF (BB)
75Ω

① Supply the external reference signal from a sync signal generator to the equipment.
② Composite signals are connected as the video signals.

Tapes

Type		Description
Consumer cassette (S size cassette)		These tapes are exclusively used with general consumer camera/recorders. They can be played back on the unit if a cassette adapter AJ-CS750P (available as an optional accessory) is used. However, bear in mind that long-playing cassette tapes (80 minutes in the standard mode; 120 minutes in the LP mode) cannot be used. It is recommended that Panasonic's DV tapes for general consumer applications be used. Bear in mind that inserting one of these cassette tapes without first installing the cassette adapter will cause malfunctioning.
M size cassette		Tapes with a maximum playback time of 33 minutes. (AJ-5P23MP, AJ-5P33MP)
L cassette	**DVCPRO (50 Mbps)**	Tapes with a maximum playback time of 92 minutes. (AJ-5P63LP, AJ-5P92LP)
	For consumer use	Standard playback cassette tapes for consumer use. For playback, select DV as the setup menu item No. 014 (FORMAT SEL) setting. Use of Panasonic's consumer-use DV tapes is recommended.

Align the cassette with the center of the insertion slot, and gently push it inside. The cassette tape is automatically loaded.



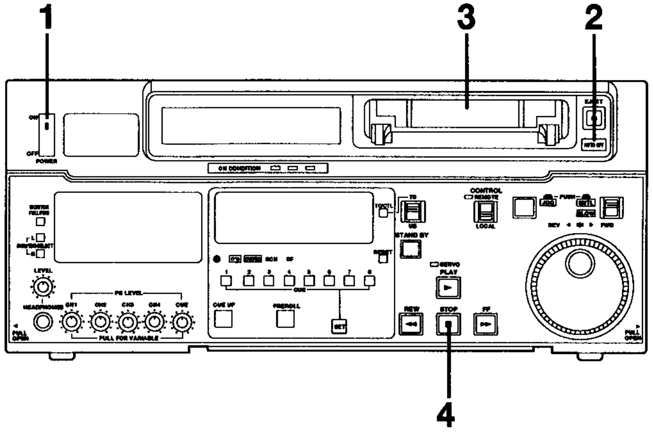
<Note>
For AJ-5P92LP cassette tapes recorded using the DVCPRO (25 Mbps) mode, use a VTR supporting DVCPRO (25 Mbps) 184 minute tapes.

<Precautions when playing back general consumer DV tapes>
- General consumer tapes recorded in the LP mode cannot be played back.
- When material recorded on a general consumer tape is to be edited, either use a DVCPRO50 (50 Mbps) or DVCPRO (25 Mbps) tape or record the material on another VTR used for broadcast applications.
- The maximum speed at which general consumer tapes can be advanced is 32 times the normal tape speed.
- The maximum still mode time for general consumer tapes is set to 10 seconds.
- Cueing up a general consumer tape at the same position should be kept to the minimum in order to protect the tape from damage.
- The maximum time for STILL TIMER when a general consumer tape is used is set to 10 seconds, and the total time during which such a tape may be left standing in the STILL mode is set to 1 minute.

Switching on the Power/Inserting the Cassette

Before starting to operate the unit, check that the equipment has been connected properly.

1. Turn on the power.
2. Check that the AUTO OFF lamp is off.
   In the event of condensation or other trouble, the AUTO OFF lamp lights, and all of the unit's operations are disabled.
3. Insert the cassette tape.
   Insert the tape into the prescribe position without forcing it in any way.
4. Check that the STOP lamp is lighted.
   When the tape is inserted, the cylinder starts rotating automatically, the tape is loaded, and the STOP mode is established.
   The EJECT lamp now goes off.

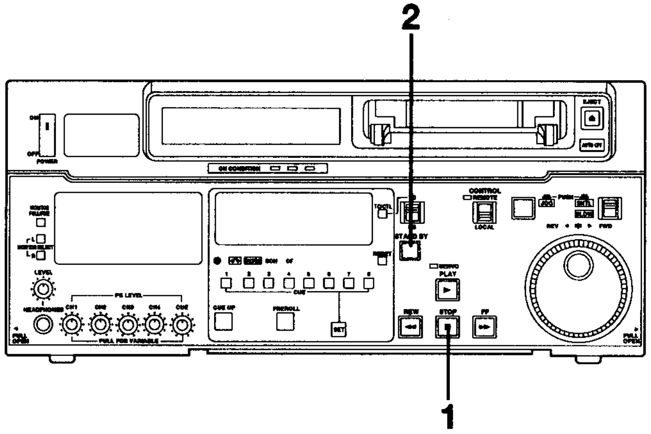


STOP/STANDBY mode

1 The stop mode is established when the STOP button is pressed.
The STOP lamp lights, and the tape stops traveling.
- In order to protect the tape, the standby OFF mode is established after the time set in setup menu item No. 400 (STILL TIMER) has elapsed.
When the STOP, REW, FF or PLAY button is pressed, the corresponding mode is established.

2 When the STANDBY button is pressed, the standby ON or OFF mode is established.
The standby ON mode is established while the button's lamp is lighted.
When the button is pressed in the stop mode, the standby OFF mode is established, the tape is set to the half-loading status, and the button's lamp goes off.
When the button is pressed in the standby OFF mode, the standby ON mode is established.

<Precautions for the STILL TIMER setting>
- Remember that at times when the same material is repeatedly used such as when programs are aired, the cumulative standby time in the same position will be increased.
- In order to protect the tape, make the standby time at the same tape locations as short as possible: for instance, select a maximum of 30 seconds or so as the setup menu item No. 400 (STILL TIMER) setting.



Playback

1 Insert the cassette tape and set the unit to the STOP mode.

2 Press the PLAY button. Normal playback now commences.

3 Adjust the audio playback levels. Pull out the audio level controls, and turn them clockwise or counterclockwise to adjust the levels. Normally, they are kept at their pushed-in positions (unity level).

4 To end playback, press the STOP button.
The unit is now set to the stop mode.

<Note>
Check that the SERVO lamp remains lighted during playback. The playback pictures will be disturbed if the lamp is flashing or off.

Jog/Shuttle

Jog mode

1. Push the search dial to set it to its "in" position. Check that the JOG lamp is lighted.
2. Rotate the search dial.
   The clickstop positions of the dial are cleared, and the tape is played back at a speed (–1× to +1×) corresponding to the speed at which the dial is rotated. When the rotation of the dial is stopped, a still picture appears. The playback picture is free from noise.
3. To transfer operation from the jog mode to another mode, press the button which corresponds to the mode which is to be transferred to.

Shuttle mode

1. Push the search dial to release it from its "in" position.
   The SHTL lamp now lights, and the shuttle mode is established.
   - Immediately after the power is turned on, rotate the search dial and set it to its center position.
2. Set the SHTL/SLOW switch to the SHTL or SLOW position.
3. Rotate the search dial.
   When the SHTL/SLOW switch is set to the SHTL position, the speed of the playback picture is varied in the 0 to ±32× range depending on the dial's position. (The speed can be switched to ±8.4×, ±16× or ±32× using setup menu item No. 101 (SHTL MAX).)
   The dial is set to the clickstop at the center: at this position a still picture appears on the screen.
   When the SHTL/SLOW switch is set to the SLOW position, the speed of the playback picture is varied in the –4.1× to +4.1× range depending on the dial's position. (The maximum speed can be selected using setup menu item No. 320 (VAR FWD MAX) and No. 321 (VAR REV MAX). However, noise will appear at any speed outside the –1× to +1× range for the DVCPRO50 (50 Mbps) format, the –2× to +2× range for the DVCPRO (25 Mbps) format and the –1× to +1× range for the DV format.) The dial is set to the clickstop at the center: at this position a still picture appears on the screen.
   The playback picture is free from noise.
4. To transfer operation from the shuttle mode to another mode, press the STOP button or another button.

<Note>
The unit is set at the factory in such a way that operation will be transferred to the shuttle or jog mode when the search dial is rotated. If it is inconvenient to transfer directly to the variable speed mode, operation transfer can be set up to go through the search button.
Set setup menu item No. 100 (SEARCH ENA) to KEY.

MULTI CUE Function

Entering CUE points

■ Automatic entry

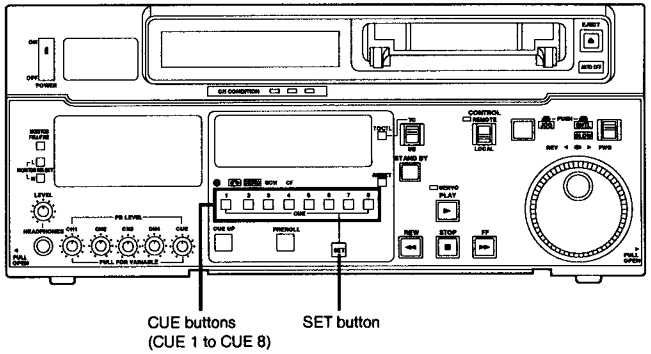
Using the search dial or in the PLAY mode, press the SET button at the place where the tape is to be cued. The CUE button in which the CUE point was entered now lights.
Each time the SET button is pressed at the next place where the tape is to be cued, the CUE point will be entered into the CUE button, in which a CUE point has not yet been entered, in sequence starting with the button having the lowest number.

<Note>
When CUE points are entered in all 8 buttons, no further points will be entered even when the SET button is pressed. In this case, either overwrite an existing entry using the procedure for entry into a particular CUE button or reset the CUE point entry and then enter another CUE point.

■ Entry into a particular CUE button

There are two procedures for entering a CUE point into a particular CUE button.

- When a CUE point is to be entered into a CUE button in which no CUE point has been entered, press one of the CUE buttons (CUE 1 to CUE 8) directly at the place where the tape is to be cued. The lamp of the CUE button which was pressed now lights, indicating that the CUE point has been entered for that button.
- When a CUE point is to be entered into a CUE button in which a CUE point has already been entered, press the CUE button and SET button together at the place where the tape is to be used. In this case, the previous CUE point in the CUE button will be overwritten and a new CUE point will be entered.



Checking CUE points

Press one of the CUE buttons in which a CUE point has been entered to check the CUE point. The value of the entered CUE point appears on the display and the CUE button which was pressed now flashes. To release the flashing of the CUE button, either press the flashing CUE button or press another CUE button in which a CUE point has been entered. In this case, the flashing moves to the CUE button which was pressed.

■ Cueing up the tape to the CUE point

Press the CUE UP button while the CUE button is flashing. When this button is pressed, the tape is prerolled to the CUE point, and a still picture appears on the screen.

- The preroll time can be set using setup menu item No. 016 (CU-ROLL TIME).
- The mode to be established upon completion of the prerolling can be set to the STOP or STILL by setting setup menu item No. 315 (AFTER CUE-UP).

<Note>

If the button is pressed when no CUE point has been selected, the tape will be prerolled from the point where the button was pressed, and a still picture will appear on the screen.

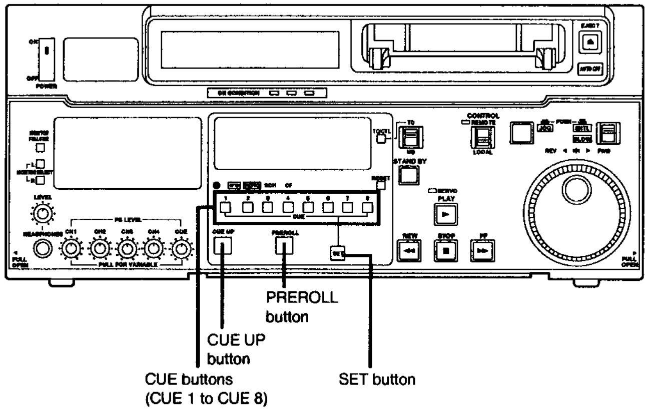
■ Prerolling the tape to the CUE point

Press the PREROLL button while the CUE button is flashing. When this button is pressed, the tape is prerolled to the CUE point, and a still picture appears on the screen.

- The preroll time can be set using setup menu item No. 000 (P-ROLL TIME).
- The mode to be established upon completion of the prerolling can be set to the STOP or STILL by setting setup menu item No. 315 (AFTER CUE-UP).

<Note>

If the button is pressed when no CUE point has been selected, the tape will be prerolled from the point where the button was pressed, and a still picture will appear on the screen.



Clearing CUE points

■ Clearing a particular CUE point

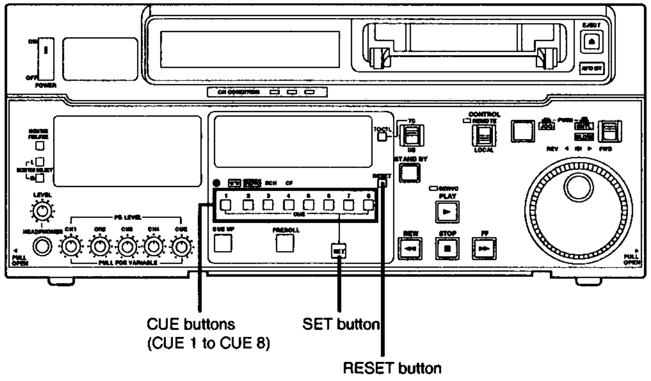
Press the RESET button while holding down the CUE button in which the point to be cleared has been entered. The entered CUE point will be reset, and the lamp of the CUE button concerned will go off at the same time.

■ Clearing all the CUE points together

Press the RESET button while holding down the SET button. All the entered CUE points will be reset and all the lamps of the CUE buttons will go off at the same time.

<Notes>

- The following applies when the CTL mode has been set.
  When the RESET button is pressed while the SET button is held down, all the entered CUE points will be reset but the CTL value will not be reset.
  Conversely, when the SET button is pressed while the RESET button is held down, all the entered CUE points will be reset and the CTL value will also be reset.
- The entered CUE points are not reset even when the tape is ejected. In the CTL mode, only the CTL value is reset.



Video Output Signal (Encoder Output) Adjustments

In order to ensure an accuracy which is free from errors during editing when proceeding with AB roll editing (editing using two source units) using editors, it is necessary to adjust the video output signal (ENCODER OUT) after the system connections have been performed.
(These adjustments must be performed again each time a connecting cable has been replaced or the connections are changed.)
The adjustment procedure for this unit is described below.

1 Check the connections. (See page 20)

2 Set the ● REMOTE/LOCAL switch at the bottom of the front panel to the adjustment position (LOCAL).
REMOTE: The video output signals are adjusted using the external encoder remote controller.
LOCAL: The video output signals are adjusted using the controls on this unit.

3 Perform the adjustments separately for each source unit.

3-1 When the preset values are to be used
Set the PRESET/MANUAL switches for VIDEO LEVEL, CHROMA LEVEL, SETUP and HUE to the PRESET position.

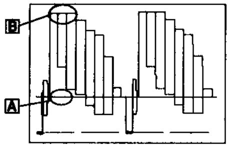
3-2 When adjusting the video output signals without using the PRESET values
1 Play back a cassette tape on which standard color bars have been recorded.
2 Adjust the controls in such a way that the following will appear on the waveform monitor (WFM) and vectorscope (VSC).

A Setup level:
Adjust in such a way as to eliminate any deviation.

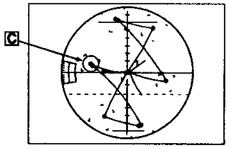
B Video level:
Adjust to 100 IRE.

C Chroma level and hue:
Adjust the two controls and place the vector waveform traces within the square grid mark.

■ Waveform on WFM



■ Waveform on VSC



4 Adjust the connected source units in the same way.

Setup (Default Settings)

The unit's main settings are performed while making selections using a menu system. The setting menus will appear on a TV screen when the VIDEO OUT 3 connector on the connector panel has been connected to a TV monitor.

Changing the settings

1 Press the MENU button.
The setup menu screen appears on the TV monitor, and the setup menu item number appears on the unit's counter display.
(When setup has already been performed, the screen showing the changes made last is displayed.)

2 Rotate the search dial and select the item to be set.
The cursor (*) moves on the menu screen, and the item number on the display flashes.
- When the dial is rotated clockwise, the flashing item number is incremented (001 → 002 → 003 → 004 → and so on); when it is rotated counterclockwise, it is decremented.
- When the FF or REW button is pressed while the PLAY button is held down, the next or previous item is selected.
- Use the search dial in the JOG mode whenever possible.

3 Rotate the search dial while holding down the search button at the position where the change is to be made. The menu screen and setting on the display flash.
When the dial is rotated clockwise, the setting is incremented; when it is rotated counterclockwise, it is decremented.

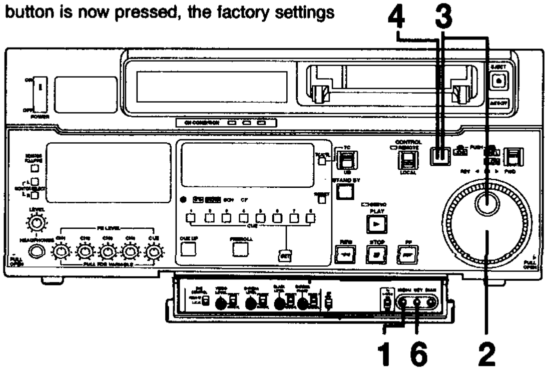
4 Release the search button when the settings are completed. The item number now flashes.
- When the search dial is in the SHTL mode, the item will move unless the dial is held at the STILL position.

5 Repeat steps 2 to 4 if another item is to be changed.

6 Press the SET button. The changes made are now stored in the memory. To return the settings to what was set before the changes were made, press the MENU button.
- To return the setup settings to the factory (default) settings, press the RESET button while the menu is displayed. The following message will appear.

SETUP-MENU INIT SET
YES<PLAY>/NO<STOP>

When the PLAY button is now pressed, the factory settings will be restored.



<Notes>
- When the RESET button is pressed to restore the factory settings, the change will be made for the user file in current use only. The other user files will not be affected.
- The changes made to the SYSTEM menu settings can be stored in the memory also by pressing the MENU button.

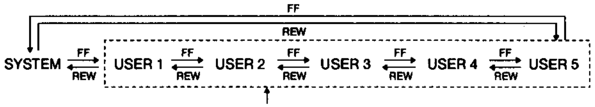
Setup (Setting) Menus

This unit offers five user files each of which can hold different menu settings.
One of these files can be selected for use as the situation demands.

Changing the file

1. Press the MENU button.

2. When the FF button is pressed while the STANDBY button is held down, the next user file is selected in place of the current user file.
   Conversely, when the REW button is pressed while the STANDBY button is held down, the previous user file is selected in place of the current user file.



User files
Each user file has the following items.

- BASIC
- OPERATION
- INTERFACE
- EDIT
- TAPE PROTECT
- TIME CODE
- VIDEO
- AUDIO
- V BLANK
- MENU

3. When the user file to be used has been selected in step 2, press the SET button. The user file is changed and stored in the memory.

<Note>
The SYSTEM menu items are not contained in user files 1 to 5. Therefore, to set the SYSTEM menu items, select the user file and switch to the SYSTEM file.

Setup Menus

The lock mode can be set to protect the settings in the system file and user files (USER2 to USER5). Once the lock mode has been set, it is no longer possible to change the settings. The setting and release of the lock mode can be performed using setup menu item No. 30 (MENU LOCK) for the system file and using setup menu item No. A03 (MENU LOCK) for the user files.

Setting and releasing the lock mode

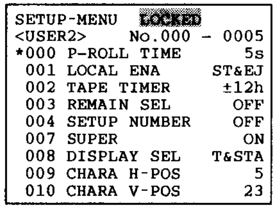
1. Press the MENU button.

2. Press the FF or REW button while the STANDBY button is held down to select the file for which the lock mode is to be set or released.

3. Rotate the search dial, and move the cursor (*) on the menu screen to No. 30 (MENU LOCK) for the system file or to No. A03 (MENU LOCK) for the user files.

4. Rotate the search dial while the search button is held down, and select whether to set or release lock mode.
   Set lock: Set the setting to 0001 (ON).
   Release lock: Set the setting to 0000 (OFF).

   When the lock is set, "LOCKED" appears at the top of the menu screen. In addition, the counter display stops flashing and lights up.



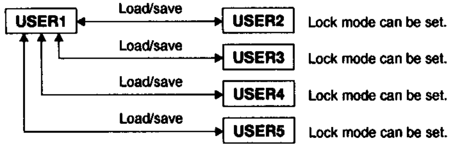
```
SETUP-MENU  LOCKED
<USER2>     No.000 - 0005
*000 P-ROLL TIME       5s
 001 LOCAL ENA      ST&EJ
 002 TAPE TIMER      ±12h
 003 REMAIN SEL       OFF
 004 SETUP NUMBER     OFF
 007 SUPER             ON
 008 DISPLAY SEL   T&STA
 009 CHARA H-POS        5
 010 CHARA V-POS       23
```

5. Press the SET button. The setting is now stored in the memory.

<Notes>

- The lock mode cannot be set for the USER1 file.
- Once a file has been set to the lock mode, it cannot be reset to the factory settings even when the RESET button is pressed.

The contents of the USER2 to USER5 files can be copied (loaded) to the USER1 file. Alternatively, the contents of the USER1 file can be copied (saved) to the USER2 to USER5 files.



Loading a user file

1. Press the MENU button.
2. Press the FF or REW button while the STANDBY button is held down and select USER1.
3. Rotate the search dial, and move the cursor (*) on the menu screen to No. A00 (LOAD).

```
SETUP-MENU  MENU
<USER1>     NO.A00 - 0000
 804 BLANK LINE    BLANK
*A00 LOAD          USER2
 A01 SAVE          USER2
 A02 P.ON LOAD       OFF
 END
```

4. Rotate the search dial while the search button is held down, and select the user file which is to be loaded in USER1.
5. Press the SET button. The following messages now appear on the menu screen and counter display.

Menu screen

```
SETUP-MENU LOAD

  USER2 → USER1 OK?
   YES<PLAY>/NO<STOP>
```

Counter display

```
TCR  00:00:00:00
SETUP LOAD U-2 → U-1
```

The number of the user file selected in step 4 is displayed in the shaded area.

6. Press the PLAY button. The settings in the user file selected in step 4 are loaded, and the USER1 menu display appears. If the STOP button is pressed instead, the USER1 menu display appears with its settings remaining unchanged.
7. Rotate the search dial, and move the cursor (*) on the menu screen to any item except No. A00 (LOAD) or No. A01 (SAVE).
8. Press the SET button. The USER1 settings are now stored in the memory. If they are not going to be stored in the memory, press the MENU button instead of the SET button.

Saving a user file

1. Press the MENU button.
2. Press the FF or REW button while the STANDBY button is held down and select USER1.
3. Rotate the search dial, and move the cursor (*) on the menu screen to No. A01 (SAVE).

```
SETUP-MENU  MENU
<USER1>     NO.A00 - 0000
 804 BLANK LINE    BLANK
 A00 LOAD          USER2
*A01 SAVE          USER2
 A02 P.ON LOAD       OFF
 END
```

4. Rotate the search dial while the search button is held down, and select the user file in which the USER1 settings are to be saved. User files which have been set to the lock mode will not be displayed at this time. If all the user files are set to the lock mode, the "LOCKED" display appears, and the save operation cannot be performed.
5. Press the SET button. The following messages now appear on the menu screen and counter display.

Menu screen

```
SETUP-MENU SAVE

  USER1 → USER2 OK?
   YES<PLAY>/NO<STOP>
```

Counter display

```
TCR  00:00:00:00
SETUP SAVE U-1→ U-2
```

The number of the user file selected in step 4 is displayed in the shaded area.

6. Press the PLAY button. The USER1 settings are saved in the user file selected in step 4. If the STOP button is pressed instead, the USER1 menu display appears with its settings remaining unchanged.
7. Rotate the search dial, and move the cursor (*) on the menu screen to any item except No. A00 (LOAD) or No. A01 (SAVE).
8. Press the SET button. The USER1 settings are now stored in the memory.
If they are not going to be stored in the memory, press the MENU button instead of the SET button.

Automatically calling a user file when the power is turned on

If the user file to be loaded is set in advance using setup menu item No. A02 (P.ON LOAD), the file will be loaded into USER1 automatically when the power is turned on.

SYSTEM menu

<SYSTEM>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
00	WFM SEL	0000 0001 0002 0003 0004 0005 0006 0007 0008 0009 0010 0011 0012 0013 0014 0015	CTL TC VIDEO SYNC RF_L1 RF_L2 RF_R1 RF_R2 RF_DL RF_DR ENV_L1 ENV_L2 ENV_R1 ENV_R2 ENV_DL ENV_DR	This enables various signals to be output from the VIDEO OUT2 output connector. 0: The CTL signal is output. 1: The time code signal is output. 2: The video output signal is output. 3: The sync signal is output. 4: The PB L13ch RF signal is output. 5: The PB L24ch RF signal is output. 6: The PB R13ch RF signal is output. 7: The PB R24ch RF signal is output. 8: The DV L12ch RF signal is output. 9: The DV R12ch RF signal is output. 10: The PB L13ch ENV signal is output. 11: The PB L24ch ENV signal is output. 12: The PB R13ch ENV signal is output. 13: The PB R24ch ENV signal is output. 14: The DV L12ch ENV signal is output. 15: The DV R12ch ENV signal is output.
11	SYS SC	0000 ⋮ 0127 ⋮ 0255	−127 ⋮ 0 ⋮ 128	System phase adjustment: total variable range = more than ±180 degrees −: Advanced +: Delayed **<Note>** The setting will remain unchanged even if an operation is performed to restore the factory setting.
12	SYS H	0000 ⋮ 0108 ⋮ 0216	−108 ⋮ 0 ⋮ 108	System phase adjustment: 74 ns steps −: Advanced +: Delayed **<Note>** The setting will remain unchanged even if an operation is performed to restore the factory setting.
13	VIDEO PHASE	0000 ⋮ 0032 ⋮ 0064	−32 ⋮ 0 ⋮ 32	Video phase adjustment: 148 ns steps −: Advanced +: Delayed
14	SCH COARSE	0000 0001 0002 0003	0 90 180 270	SCH phase adjustment: 90-degree increments −: Advanced +: Delayed (The SC phase changes; the H phase does not change.)
15	SCH FINE	0000 ⋮ 0032 ⋮ 0064	−32 ⋮ 0 ⋮ 32	CH phase adjustment: total variable range = more than ±45 degrees (The SC phase changes; the H phase does not change.)
16	AV PHASE	0000 ⋮ 0100 ⋮ 0200	−100 ⋮ 0 ⋮ 100	This adjusts the phase of the audio output in relation to the video output phase: 20.8 µs steps. −: The audio output phase advances ahead of the video output phase. +: The audio output phase lags behind the video output phase.

"__" denotes the factory setting.

SYSTEM menu

<SYSTEM> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
17	SYS H RANGE	0000 0001	FULL FINE	This selects the variable range for SYSTEM H when the ENCODER REMOTE connector is connected. 0: ±8 µsec. 1: −2 to +2.7 µsec. **<Notes>** • The setting will remain unchanged even if an operation is performed to restore the factory setting. • The FULL operation results regardless of this item's setting if SYSTEM H is varied using this unit instead of using the encoder remote controller.
18	SYS H OFFSET	0000 0001 0002 0003 0004 0005 0006	−3 −2 −1 0 1 2 3	System phase adjustment 0: −13.4 µsec. 1: −8.96 µsec. 2: −4.52 µsec. 3: 0 sec. 4: +4.52 µsec. 5: +8.96 µsec. 6: +13.4 µsec. **<Note>** The setting will remain unchanged even if an operation is performed to restore the factory setting.
19	SYS SC/H	0000 0001	REMOTE LOCAL	This sets whether the system phase is to be adjusted by the unit or from the external encoder remote controller. 0: The system phase is adjusted from the external encoder remote controller. 1: The system phase is adjusted by the unit. **<Note>** This setting does not take effect when the ENCODER CONTROL switch at the bottom of the front panel is set to LOCAL.
30	MENU LOCK	0000 0001	OFF ON	This selects whether the lock mode is to be set or released for the system file. 0: Lock is released (changes can be made). 1: Lock is set (no changes can be made). **<Note>** Setup menu item No. 00 (WFM SEL) can be changed at any time regardless of the setting of this menu item.

"__" denotes the factory setting.

Video output signal adjustments

The video output signal adjustments are made using the ENCODER CONTROL switch at the bottom of the front panel and the SYSTEM menu item No. 19 (SYS SC/H) setting. A control matrix of the adjustments is shown below.

Setting		Adjustment item		
ENCODER CONTROL switch	SYSTEM menu item 19: SYS SC/H	SYSTEM menu item 11: SYS SC 12: SYS H	SYSTEM menu item 17: SYS H RANGE	VIDEO LEVEL CHROMA LEVEL SET UP HUE
LOCAL	LOCAL	Unit	Always FULL regardless of setting	Unit
	REMOTE			
REMOTE	LOCAL	Unit		External encoder remote controller
	REMOTE	External encoder remote controller	FULL/FINE	

USER menus

<BASIC>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
000	P-ROLL TIME	0000 : 0005 : 0015	0S : 5S : 15S	This sets the time for the preroll which is initiated by the PREROLL button. It can be set from 0 to 15 seconds in 1-second increments.
001	LOCAL ENA	0000 0001 0002	DIS ST&EJ ENA	This selects the buttons which can be operated on the front panel when the REMOTE/LOCAL switch has been set to REMOTE. 0: No buttons can be operated. 1: Only the STOP and EJECT buttons can be operated. 2: All the buttons can be operated.
002	TAPE TIMER	0000 0001	±12h 24h	This selects the 12- or 24-hour display for the CTL counter. 0: 12-hour display 1: 24-hour display
003	REMAIN SEL	0000 0001	OFF ON	This selects whether to indicate the remaining tape time (REMAIN) on the front panel display and the superimposed display at the VIDEO OUT 3/SERIAL OUT 3 connectors. 0: Remaining tape time is not displayed. 1: Remaining tape time is displayed. **<Notes>** • The remaining tape time is indicated at the far right of the second digit on the front panel display and superimposed display. • Even when 1 (ON) has been selected, the remaining tape time is not displayed while it is being calculated after the cassette has been ejected or inserted. • When TIME has been selected as the setup menu item No. 008 (DISPLAY SEL) setting, the time is not indicated on the superimposed display. • No display appears if the freeze mark (F) is indicated by the setup menu item No. 111 (FRZ MODE SEL) setting. • No display appears if the tape start or end is sensed and BOT or EOT is displayed.
004	SETUP NUMBER	0000 0001	OFF ON	This selects whether the SETUP MENU No. is to be displayed on the front panel. 0: The SETUP MENU No. is not displayed. 1: The SETUP MENU No. is displayed.
007	SUPER	0000 0001	OFF ON	This selects whether the time code and other superimposed displays are to be shown at the VIDEO OUT 3/SERIAL OUT 3 connector. 0: Superimposed displays are not shown. 1: Superimposed displays are shown.

"_" denotes the factory setting.

USER menus

<BASIC> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
008	DISPLAY SEL	0000 0001 0002 0003 0004 0005 0006	TIME T&STA T&S&M T&RT T&YMD T&MDY T&DMY	This selects what information is to be provided by the time code and other superimposed displays at the VIDEO OUT 3/ SERIAL OUT 3 connector. 0: Time only 1: Time and operating mode 2: Time, operating mode and mode 3: Time and REC TIME 4: Time and REC DATE (year/month/day) 5: Time and REC DATE (month/day/year) 6: Time and REC DATE (day/month/year) **<Notes>** 1. Displayed as the mode is DVCPRO_50 for the DVCPRO50 (50 Mbps) format, DVCPRO for the DVCPRO (25 Mbps) format or DV for the DV format. 2. An error message appears if a warning or error has occurred when 2 (T&S&M) has been selected as this setting. 3. REC TIME and REC DATE are displayed during DV playback only. With the DVCPRO50 (50 Mbps) or DVCPRO (25 Mbps) format, the operating mode is displayed.
009	CHARA H-POS	0000 : 0004 : 0015	0 : 4 : 15	This sets the horizontal position of the characters for the time code and other superimposed displays of the VIDEO OUT 3/ SERIAL OUT 3 connector. **<Note>** When this item is set, the time code and other superimposed displays are output to VIDEO OUT 3/SERIAL OUT 3 in the DISPLAY SEL status even if SUPER OFF has been set. However, when the menu is exited, operation complies with the SUPER OFF/ON setting. Furthermore, CHARA TYPE as set in the menu is output to VIDEO OUT 3.
010	CHARA V-POS	525 mode 0000 : 0018 : 0022 625 mode 0000 : 0023 : 0028	 0 : 18 : 22 0 : 23 : 28	This sets the vertical position of the characters for the time code and other superimposed displays of the VIDEO OUT 3/ SERIAL OUT 3 connector. **<Notes>** 1. When this item is set, the time code and other superimposed displays are output to VIDEO OUT 3/SERIAL OUT 3 in the DISPLAY SEL status even if SUPER OFF has been set. However, when the menu is exited, operation complies with the SUPER OFF/ON setting. 2. When the DISPLAY SEL setting causes characters to extend beyond the edges of the screen, the setting is changed in such a way that the characters are automatically displayed at a position where they are contained within the screen.

"_" denotes the factory setting.

USER menus

<BASIC> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
011	CHARA TYPE	0000 0001	WHITE W/OUT	This selects the display type for the superimposed displays of the VIDEO OUT 3/SERIAL OUT 3 connector, the setup menus, etc. 0: White characters against a black background 1: White characters with a black border
012	SYS FORMAT	0000 0001	50M 25M	This sets the playback format. 0: The DVCPRO50 (50 Mbps) format is selected. 1: The DVCPRO (25 Mbps) format is selected.
013	PB FORMAT	0000 0001	MANUAL AUTO	This sets the tape playback format. 0: The format complies with the setup menu item No. 012 (SYS FORMAT) setting. 1: The format complies with the format recorded on the tape when the DVCPRO mode has been selected as the setup menu item No. 014 (FORMAT SEL) setting. **<Note>** There is no automatic setting in the 525/625 mode.
014	FORMAT SEL	0000 0001	DVCPRO DV	This selects the format when an L size cassette is used. 0: DVCPRO (50 Mbps, 25 Mbps) mode 1: DV mode **<Notes>** Bear in mind that the following problems may arise over and above trouble with playback if a tape with a different format from the one selected is inserted. 1. The remaining tape time will not be displayed accurately. 2. The slow-down positions near the tape start and end will not be located accurately. 3. In addition, no guarantees are given for performance, etc. if a tape with a different format from the one selected is inserted.
016	CU-ROLL TIME	0000 ⋮ 0015	0s ⋮ 15s	This sets the time for the preroll which is initiated by the CUE UP button. It can be set from 0 to 15 seconds in 1-second increments.

"__" denotes the factory setting.

USER menus

<OPERATION>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
100	SEARCH ENA	0000 0001	DIAL KEY	This selects the direct search dial operation. 0: For direct search dial operations. 1: Operation is not transferred to the search mode unless the search button is pressed.
101	SHTL MAX	0000 0001 0002	×8.4 ×16 ×32	This sets the maximum speed for shuttle operations. 0: 8.4× (7.0×) normal speed 1: 16× normal speed 2: 32× normal speed **<Note>** The values for the DV format are shown in parentheses.
102	FF. REW MAX	0000 0001 0002	×16 ×32 ×50	This sets the maximum speed for FF and REW operations. 0: 16× (32×) normal speed 1: 32× (60×) normal speed 2: 50× (100×) normal speed **<Notes>** • The values for the DVCPRO (25 Mbps) format are shown in parentheses. • With the DV format, the maximum speed is set to 32× regardless of this item's settings.
103	AUDIO MUTE	0000 0001	OFF ON	This sets the status that is established until the audio signals are output when operation is transferred from the STOP or search mode to PLAY. 0: The time until the sound is output is shortened. 1: The sound is output only after the status transfer is completed. **<Note>** When this item is set to 0, the sound in the part which is output at the beginning will be imperfect. Therefore, this setting is not recommended for use with broadcasts.
104	REF ALARM	0000 0001	OFF ON	This selects whether to display a warning for the operator when the REF.VIDEO signal has not been connected. 0: A warning is not displayed. 1: A warning is displayed in the form of a flashing STOP lamp.
107	PLAY DELAY	0000 ⋮ 0015	0 ⋮ 15	This sets the play startup time in frame increments.
108	CAP.LOCK	0000 0001	4F 8F	This selects the CAPSTAN LOCK mode when the CF switch has been set to 4F or 8F. 0: 4F mode 1: 8F mode **<Note>** This setup menu item is not displayed in the 525 mode.
109	AUTO REW	0000 0001	OFF ON	This selects whether to rewind the tape automatically to the tape start when the tape end has been detected. 0: The tape stops at the tape end. 1: The tape is rewound to the tape start.

"__" denotes the factory setting.

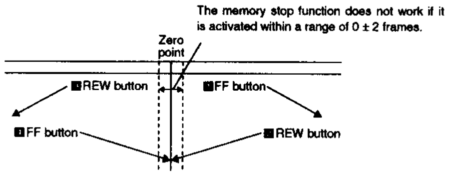
USER menus

<OPERATION> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
110	MEMORY STOP	0000 0001	OFF ON	This selects whether the VTR is to stop automatically when the counter value reaches "0" during fast forwarding or rewinding in the CTL mode. 0: The VTR does not stop. 1: The VTR stops automatically. **<Notes>** 1. The stop mode concerned is either the stop or still-picture (SHTL STILL) mode depending on the setup menu item No. 315 (AFTER CUE-UP) setting. 2. When the AUTO REW function and MEMORY function have been selected at the same time, the AUTO REW function takes precedence.
111	FRZ MODE SEL	0000 0001 0002	DIS STBOFF SOF&EJ	This selects the image which is to be output in the STANDBY OFF (HALF LOADING) mode and EJECT mode. 0: The video output is muted. 1: In the STANDBY OFF (HALF LOADING) mode only, the playback picture corresponding to the point in time when the STANDBY OFF mode was established is frozen and output. 2: In the STANDBY OFF (HALF LOADING) and EJECT mode, the playback picture corresponding to the point in time when the mode was established is frozen and output. **<Note>** The mode of field freeze is used when the playback picture is frozen.

"__" denotes the factory setting.

Description of memory stop function


The memory stop function does not work if it is activated within a range of 0 ± 2 frames.

- ■ When the FF button is pressed, the VTR performs the regular fast forward operation since the zero point is not located in the direction of operation.
- ■ When the REW button is pressed, the PREROLL lamp lights (the SHTL lamp also lights), the VTR proceeds with the preroll operation, and it automatically stops when it reaches the position where the counter reads "0."
- ■ When the REW button is pressed, the VTR performs the regular rewind operation since the zero point is not located in the direction of operation.
- ■ When the FF button is pressed, the PREROLL lamp lights (the SHTL lamp also lights), the VTR proceeds with the preroll operation, and it automatically stops when it reaches the position where the counter reads "0."

USER menus

<INTERFACE>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
200	PARA RUN	0000 0001	DIS ENA	This selects whether two or more VTRs are to be operated in synchronization. 0: The VTRs are not operated in synchronization. 1: The VTRs are operated in synchronization. **<Note>** When the VTRs are to be operated in synchronization, set item 200 to "1" for all the VTRs.
201	9P SEL	0000 0001	OFF ON	This selects whether the 9P connector is to function when the REMOTE/LOCAL switch has been set to REMOTE. 0: The 9P connector does not function. 1: The 9P connector functions.
202	ID SEL	0000 0001	OTHER DVCPRO	This selects the ID information which is returned to the controller. 0: 20 25H in the 525 mode; 21 25H in the 625 mode 1: ID inherent to DVCPRO F0 33H in the 525 mode; F1 33H in the 625 mode
203	25P SEL	0000 0001	OFF ON	This selects whether the PARALLEL (25P) connector is to function when the REMOTE/LOCAL switch has been set to REMOTE. 0: The 25P connector does not function. 1: The 25P connector functions.
204	RS232C SEL	0000 0001	OFF ON	This selects whether the RS-232C connector is to function when the REMOTE/LOCAL switch has been set to REMOTE. 0: The RS-232C connector does not function. 1: The RS-232C connector functions.
205	BAUD RATE	0000 0001 0002 0003 0004 0005	300 600 1200 2400 4800 9600	This sets the RS-232C communication speed (baud rate).
206	DATA LENGTH	0000 0001	7 8	This sets the RS-232C data length (unit: bit).
207	STOP BIT	0000 0001	1 2	This sets the RS-232C stop bit length (unit: bit).
208	PARITY	0000 0001 0002	NON ODD EVEN	This sets none, odd or even for the RS-232C parity bit. 0: Parity bit is not used. (None) 1: An odd number of bits is used for the parity. (Odd) 2: An even number of bits is used for the parity. (Even)
209	RETURN ACK	0000 0001	OFF ON	For selecting whether the ACK code is to be returned when a command is received from RS-232C. 0: ACK code is not returned. 1: ACK code is returned.
210	25P STBY CMD	0000 0001	OFF/ON ON	This selects the method used in connection with detecting the STANDBY COMMAND signal input at the PARALLEL (25P) connector. 0: Each time an active signal is detected, the mode is switched from STANDBY ON to STANDBY OFF or vice versa. 1: When an active signal is detected in the STANDBY OFF mode, operation is transferred to the STANDBY ON mode. This setting has no effect on operation while the unit is in the STANDBY ON mode.

"__" denotes the factory setting.

USER menus

<EDIT>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
315	AFTER CUE-UP	0000 0001	STOP STILL	This selects the unit's mode upon completion of the cue-up operation. 0: The unit is set to the stop mode. 1: The unit is set to the still-picture (SHTL STILL) mode.
319	VAR STEP	0000 0001	FINE COARSE	This selects the VAR speed above ±1x for remote control operations. 0: The tape is played at a speed which can be varied in fine steps. 1: The tape is played at a speed which can be varied in coarse steps. **<Note>** Phase synchronization from the editing controller is not possible at the "1" (COARSE) setting.
320	VAR FWD MAX	0000 0001 0002	+4.1 +1.85 +1	This sets the maximum VAR FWD speed. 0: DVCPRO50 (50 Mbps) = +4.1x normal speed DVCPRO (25 Mbps) = +4.1x normal speed DV = +3.1x normal speed 1: DVCPRO50 (50 Mbps) = +1.85x normal speed DVCPRO (25 Mbps) = +2x normal speed DV = +1.85x normal speed 2: +1x normal speed **<Note>** Phase synchronization from the editing controller is not possible at a setting other than "0" (+4.1).
321	VAR REV MAX	0000 0001 0002	–4.1 –1.85 –1	This sets the maximum VAR REV speed. 0: DVCPRO50 (50 Mbps) = –4.1x normal speed DVCPRO (25 Mbps) = –4.1x normal speed DV = –3.1x normal speed 1: DVCPRO50 (50 Mbps) = –1.85x normal speed DVCPRO (25 Mbps) = –2x normal speed DV = –1.85x normal speed 2: –1x normal speed **<Note>** Phase synchronization from the editing controller is not possible at a setting other than "0" (–4.1).
322	JOG STEP	0000 0001	FINE COARSE	This selects the JOG speed during remote control operations. 0: The tape is played at a speed which can be varied in fine steps. 1: The tape is played at a speed which can be varied in coarse steps. **<Note>** Phase synchronization from the editing controller, which synchronizes the phase using the JOG command, is not possible at the "1" (COARSE) setting.
323	JOG FWD MAX	0000 0001 0002	+4.1 +1.85 +1	This sets the maximum JOG FWD speed. 0: DVCPRO50 (50 Mbps) = +4.1x normal speed DVCPRO (25 Mbps) = +4.1x normal speed DV = +3.1x normal speed 1: DVCPRO50 (50 Mbps) = +1.85x normal speed DVCPRO (25 Mbps) = +2x normal speed DV = +1.85x normal speed 2: +1x normal speed **<Notes>** • When the dial is operated on the front panel, the maximum playback speed is +1x normal speed for the DVCPRO50 (50 Mbps) and DV formats. With the DVCPRO (25 Mbps) format, it is +2x normal speed at "0" or "1" and +1x normal speed at "2" depending on the menu setting. • Phase synchronization from the editing controller, which synchronizes the phase using the JOG command, is not possible at a setting other than "0" (+4.1x).

"__" denotes the factory setting.

USER menus

<EDIT> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
324	JOG REV MAX	0000 0001 0002	–4.1 –1.85 –1	This sets the maximum JOG REV speed. 0: DVCPRO50 (50 Mbps) = –4.1x normal speed DVCPRO (25 Mbps) = –4.1x normal speed DV = –3.1x normal speed 1: DVCPRO50 (50 Mbps) = –1.85x normal speed DVCPRO (25 Mbps) = –2x normal speed DV = –1.85x normal speed 2: –1x normal speed **<Notes>** • When the dial is operated on the front panel, the maximum speed is –1x normal speed for the DVCPRO50 (50 Mbps) and DV formats. With the DVCPRO (25 Mbps) format, it is –2x normal speed at "0" or "1" and –1x normal speed at "2" depending on the menu setting. • Phase synchronization from the editing controller which synchronizes the phase using the JOG command is not possible when a setting other than 0 (+4.1) is used.

<TAPE PROTECT>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
400	STILL TIMER	0000 0001 0002 0003 0004 0005 0006 0007 0008	0.5s 5s 10s 20s 30s 40s 50s 1min 2min	This selects the time taken until the tape protection mode is established when the unit has been left standing in the stop or search still (JOG/VAR/SHTL) mode. (Unit: s = second, min = minute) **<Note>** When a DV tape for general consumer applications is used, any setting above 10 seconds will be treated as 10 seconds. However, the selection screen will show operations up to 2 minutes.
401	SRC PROTECT	0000 0001	STEP HALF	When the time selected as the setup menu item No. 400 (STILL TIMER) setting elapses while the unit is in the search STILL (JOG/VAR/SHTL) mode, the unit automatically enters a tape protection mode. This menu item is for selecting which tape protection mode is to be entered by the unit. 0: STEP FWD 1: HALF LOADING **<Note>** When STEP FWD has been selected, the STANDBY OFF (HALF LOADING) mode will automatically be established when the total time during which the unit has been left standing in the still status has reached 30 minutes (or 1 minute for a DV tape).
402	DRUM STDBY	0000 0001	OFF ON	This selects whether the head drum is to be rotated when operation is transferred to the STANDBY OFF (HALF LOADING) mode. 0: The head drum is stopped. 1: The head drum is rotated.
403	STOP PROTECT	0000 0001	STEP HALF	When the time selected as the setup menu item No. 400 (STILL TIMER) setting elapses while the unit is in the STOP mode, the unit automatically enters a tape protection mode. This menu item is for selecting which tape protection mode is to be entered by the unit. 0: STEP FWD 1: HALF LOADING **<Note>** When STEP FWD has been selected, the STANDBY OFF (HALF LOADING) mode will automatically be established when the total time during which the unit has been left standing in the stop status has reached 30 minutes (or 1 minute for a DV tape).

<Precaution for STILL TIMER setting>
The cumulative standby time at the same position increases when programs are transmitted or at other times when the same material is used repeatedly, etc.

"__" denotes the factory setting.

USER menus

<TIME CODE>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
500	VITC BLANK	0000 0001	BLANK THRU	This selects whether to output the VITC data to the positions selected by VITC POS-1 in 501 and VITC POS-2 in 502. 0: The data is not output. 1: The data is output.
501	VITC POS-1	525 mode 0000 : 0006 : 0010 625 mode 0000 : 0004 : 0015	 10L : 16L : 20L 7L : 11L : 22L	This sets the position where the VITC signal is to be inserted. (The same line as for VITC POS-2 in 502 cannot be selected.)
502	VITC POS-2	525 mode 0000 : 0008 : 0010 625 mode 0000 : 0006 : 0015	 10L : 18L : 20L 7L : 13L : 22L	This sets the position where the VITC signal is to be inserted. (The same line as for VITC POS-1 in 501 cannot be selected.)
507	PHASE CORR	0000 0001	OFF ON	This selects whether to control the phase correction of the LTC output during playback. 0: Phase correction control is not performed. 1: Phase correction control is performed.
509	DF MODE	0000 0001	DF NDF	This selects the DF or NDF mode for CTL. 0: Drop frame mode 1: Non-drop frame mode **<Notes>** • This item is valid when the unit is in the LOCAL mode or when "ENA" is selected as the menu setup item No. 004 (LOCAL ENA). • This setup menu item is not displayed in the 625 mode.
511	VITC OUT	0000 0001	SBC VAUX	This selects the method of outputting VITC which is superimposed onto the video output signals. SBC: The time code recorded in the SBC area is output as the VITC. VAUX: The time code recorded in the VAUX area is output as the VITC.

"__" denotes the factory setting.

SBC (Sub Code Data) area

This area is separate from the video and audio data area on the helical track. It is used to store the time codes complying with the SMPTE/EBU standard. As with the conventional linear time code (LTC), the time code can be read even during rewinding or fast forwarding. It can also be read when the tape has stopped.

VAUX (Video Auxiliary Data) area

This area is located in the video data area on the helical track. It is used to store the auxiliary data relating to the video data.

<Note>

Control over the time code and user bit during tape play is exercised using the data recorded in the SBC area. In other words, data recorded in the SBC area is used as the source of the data which is displayed or superimposed or the data which is sent to the editing controller.

USER menus

<VIDEO>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
602	V-MUTE SEL	0000 0001	N-MUTE LOW RF	This selects whether the video output signal is to be muted when a blank part of the tape has been detected during playback. 0: The video signal is not muted (it is frozen). 1: The video signal is muted (it is turned to gray).
603	CC (F1) BLANK	0000 0001	BLANK THRU	This selects ON or OFF for the closed caption signal in the first field. 0: The signal is forcibly blanked. 1: The signal is not forcibly blanked. **<Note>** This setup menu item is not displayed in the 625 mode.
604	CC (F2) BLANK	0000 0001	BLANK THRU	This selects ON or OFF for the closed caption signal in the second field. 0: The signal is forcibly blanked. 1: The signal is not forcibly blanked. **<Note>** This setup menu item is not displayed in the 625 mode.
605	FREEZE SEL	0000 0001	FIELD FRAME	This selects the freeze mode for still pictures. 0: Field freeze 1: Frame freeze **<Note>** When frame freeze has been selected, the frame slow status is established in the slow-motion mode.
606	OUT C KILL	0000 0001	B/W COLOR	This selects the chroma color killer processing for the video output signals. 0: The signals are forcibly processed as black-and-white signals. 1: The signals are automatically processed.
609	EDH	0000 0001	OFF ON	This selects whether to superimpose EDH onto the serial output signals. 0: EDH is not superimposed. 1: EDH is superimposed.
614	Pb/Pr OUT LV	0000 0001	MII B-CAM	This selects the analog component output level. 0: MII level 1: Betacam level **<Note>** This setup menu item is not displayed in the 625 mode.
618	INTER- POLATE	0000 0001	OFF AUTO	During slow-motion playback, vertical interpolation is performed automatically to reduce the up and down movement of the playback picture. However, this setting can be used to forcibly turn off this interpolation. 0: The interpolation is forcibly turned off. 1: The interpolation is automatically turned on during slow-motion playback.
620	ESR MODE	0000 0001	OFF AUTO	This selects the operation mode of the edge subcarrier reduction (ESR) in the playback circuit. 0: ESR is forcibly turned off. 1: ESR is automatically turned on or off depending on the VTR operation.
621	CCR MODE	0000 0001	OFF ON	This selects the cross-color processing during playback. 0: The signals which are output remain unchanged. 1: Cross-color can be reduced. **<Note>** This setup menu item is not displayed in the 625 mode.

"__" denotes the factory setting.

USER menu

<VIDEO> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
622	SETUP 25			This selects the set-up level for the output signals in the DVCPRO (25 Mbps) mode. When the STOP button is pressed, operation transfers to the sub-screen, and the setup level is set for the outputs. Press the STOP button again to return from the sub-screen. **<Note>** This setup menu does not appear in the 625 mode.
Sub-screen				
01	CMPST OUT	0000 0001	THRU ADD	This selects the composite output signal. 0: The composite signal is output without the setup added. 1: The composite signal is output with a setup of 7.5% added. **<Note>** Bear in mind the setting for sub-screen No.03 (CMPNT OUT) of set-up menu item No. 622 (SETUP 25).
03	CMPNT OUT	0000 0001	THRU CUT	This selects how the composite, component and serial (digital) signals are to be output. 0: The signals are output as they are. 1: The signals are output with the 7.5% setup removed.
623	SETUP 50			This selects the set-up level for the output signals in the DVCPRO (50 Mbps) mode. When the STOP button is pressed, operation transfers to the sub-screen, and the setup level is set for the outputs. Press the STOP button again to return from the sub-screen. **<Note>** This set-up menu does not appear in the 625 mode.
Sub-screen				
01	CMPST OUT	0000 0001	THRU ADD	This selects the composite output signal. 0: The composite signal is output without the setup added. 1: The composite signal is output with a setup of 7.5% added. **<Note>** Bear in mind the setting for sub-screen No. 03 (CMPNT OUT) of setup menu item No. 623 (SETUP 50).
03	CMPNT OUT	0000 0001	THRU CUT	This selects how the composite, component and serial (digital) signals are to be output. 0: The signals are output as they are. 1: The signals are output with the 7.5% setup removed.

“_” denotes the factory setting.

USER menus

<AUDIO>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
706	CH1 OUT LV	0000 0001 0002	4dB 0dB –20dB	This selects the audio output (CH1) reference level switching.
707	CH2 OUT LV	0000 0001 0002	4dB 0dB –20dB	This selects the audio output (CH2) reference level switching.
708	CH3 OUT LV	0000 0001 0002	4dB 0dB –20 dB	This selects the audio output (CH3) reference level switching.
709	CH4 OUT LV	0000 0001 0002	4dB 0dB –20 dB	This selects the audio output (CH4) reference level switching.
710	CUE OUT LV	0000 0001 0002	4dB 0dB –20dB	This selects the cue output reference level switching.
711	MONIL OUT LV	0000 0001 0002	4dB 0dB –20dB	This selects the audio monitor output (Lch) reference level switching.
712	MONIR OUT LV	0000 0001 0002	4dB 0dB –20dB	This selects the audio monitor output (Rch) reference level switching.
713	MONI OUT	0000 0001	UNITY VAR	This selects the audio monitor output UNITY/VARIABLE reference level switching. 0: The volume is output in the form of the preset value. 1: The volume is linked with the headphones volume control.
721	MONI CH SEL	0000 0001 0002	MANU AUTO1 AUTO2	This selects the monitor output. 0: The signals selected by the MONITOR SELECT switches are output. 1: PCM audio signals are output over a –1 to +1 (–2 to +2) range; otherwise, the cue signals are automatically output. 2: PCM audio signals are output in the play mode; otherwise, the cue signals are automatically output. **<Notes>** • This menu item setting is valid when the L and R MONITOR SELECT switches on the front panel are set to CH1, CH2, CH3 or CH4. (If CUE is selected, the cue signal will be output at all speeds regardless of the menu item setting.) • The speed applying for the DVCPRO (25 Mbps) format is given inside the parentheses.
727	PB FADE	0000 0001 0002	AUTO CUT FADE	This selects the processing method for the audio edit points (IN and OUT points) during playback. 0: The processing complies with the status established during recording. 1: Forced CUT 2: Forced FADE
728	EMBEDDED AUD	0000 0001	OFF ON	This selects whether to superimpose the audio data onto the serial output. 0: The data is not superimposed. 1: The data is superimposed.

“_” denotes the factory setting.

USER menus

<AUDIO> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
729	MONITOR MIX L	0000 0001 0002	OFF CH1+2 CH3+4	This makes it possible to select mixed signals for the monitor output. 0: No mixing 1: The CH1 and CH2 signals are mixed and output to the left channel. 2: The CH3 and CH4 signals are mixed and output to the left channel.
730	MONITOR MIX R	0000 0001 0002	OFF CH1+2 CH3+4	This makes it possible to select mixed signals for the monitor output. 0: No mixing 1: The CH1 and CH2 signals are mixed and output to the right channel. 2: The CH3 and CH4 signals are mixed and output to the right channel.
731	CUE OUT SEL	0000 0001	OFF ON	This selects whether the cue signal is to be output to the main line output in the search mode. 0: The cue signal is not output. 1: The cue signal is output. (However, this applies only when setup menu item No. 721 (MONI CH SEL) is not set to MANU.)
732	CUE SLOW	0000 0001	STEP LINEAR	This selects the tape travel status (cue track playback status) during the slow-motion playback. 0: The output picture takes precedence, and the tape is advanced in steps. 1: Cue track playback takes precedence and the tape travels linearly. **<Notes>** When "1" (LINEAR) has been selected: • The image may not appear as clearly as in the STEP mode. • The CTL counter may not operate normally.
734	MONI SEL INH	0000 0001 0002	OFF ON ON1	This enables or disables the operation of the MONITOR SELECT switches on the front panel. 0: Operation is enabled. 1: Operation is disabled. 2: Operation is disabled in the FULL display mode; it is enabled in the FINE display mode only.
750	DV PB ATT	0000 0001	OFF ON	This selects the audio output level during DV playback. 0: The audio output level is not attenuated. 1: The audio output level is attenuated (reduced).
751	REC PT MUTE	0000 0001	OFF ON	This selects whether to mute the sound where recordings are joined during DV playback. 0: The sound is not muted. 1: The sound is muted.

"__" denotes the factory setting.

Setup menus

USER menu

<V BLANK>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
804	BLANK LINE	0000 0001 0002	BLANK THRU MANU	This sets the blanking to ON or OFF for the lines in the vertical blanking period of the video output signals. 0: All the lines are forcibly blanked. 1: None of the lines are blanked. 2: Blanking is set ON or OFF for each line. **<Note>** When "2" (MANU) is selected, operation transfers to the sub screen when the STOP button is pressed, and ON or OFF can be selected for each line. To return from the sub screen, press the STOP button again.
Sub-screen				
525 mode				
00 : 11	LINE 10&273 : : 21&284	0000 0001	BLANK THRU	0: The line is forcibly blanked. 1: The line is blanked.
625 mode				
00 : 15	LINE 7&320 : : 22&335	0000 0001	BLANK THRU	0: The line is forcibly blanked. 1: The line is blanked.

"__" denotes the factory setting.

USER menu

<MENU>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
A00	LOAD	0000 0001 0002 0003	USER2 USER3 USER4 USER5	This selects the user file whose settings are to be loaded into USER1. 0: The contents of the USER2 file are loaded. 1: The contents of the USER3 file are loaded. 2: The contents of the USER4 file are loaded. 3: The contents of the USER5 file are loaded. **<Note>** When the SET button is pressed upon completion of the loading, the settings in the file are stored in the memory. If the MENU is pressed instead, the settings will not be changed.
A01	SAVE	0000 0001 0002 0003 0004	USER2 USER3 USER4 USER5 LOCKED	This selects the user file in which the USER1 settings are to be saved. 0: The USER1 settings are to be saved in the USER2 file. 1: The USER1 settings are to be saved in the USER3 file. 2: The USER1 settings are to be saved in the USER4 file. 3: The USER1 settings are to be saved in the USER5 file. 4: The "LOCKED" display appears when the change prohibit status has been established for all the files. **<Notes>** • A user file for which change prohibit is set cannot be selected. • When the change prohibit status has been established for all the files, the "LOCKED" display appears, and the saving operation cannot be performed.
A02	P.ON LOAD	0000 0001 0002 0003 0004	OFF USER2 USER3 USER4 USER5	This selects the user file whose settings are to be loaded into USER1 when the power is turned on so that the unit will start up with these settings. 0: The unit is started up with the settings in the user file which was previously set. 1: The settings of USER2 are loaded in USER1 and the unit starts with these settings. 2: The settings of USER3 are loaded in USER1 and the unit starts with these settings. 3: The settings of USER4 are loaded in USER1 and the unit starts with these settings. 4: The settings of USER5 are loaded in USER1 and the unit starts with these settings.
A03	MENU LOCK	0000 0001	OFF ON	This selects whether the lock mode is to be set or released for the user files (USER2 to USER5). 0: The lock is released (changes to the files can be made). 1: The lock is set (no changes to the files can be made). **<Note>** The lock cannot be set for USER1.

"__" denotes the factory setting.

<Notes>

- Menu items No. A00 (LOAD), No. A01 (SAVE) and No. A02 (P.ON LOAD) can be set for the USER1 file only. They will not appear for the USER2 to USER5 files.
- Menu item No. A03 (MENU LOCK) can be set for the USER2 to USER5 files only. It will not appear for the USER1 files.

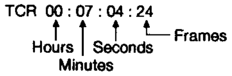
Time Code/User Bit

Time code

The time codes are used when their values are to be read by the time code reader (time code signal reader) and the absolute position of the tape is to be displayed in increments of hours, minutes, seconds and frames.

The time codes are written in the sub-code area (data area) of the helical track. They enable the VTR's playback speed to be read from the stop mode to slow-motion playback up to high-speed speed play (approx. 50× normal speed or approx. 100× when a DVCPRO tape is used).

The time code values are shown on the display or superimposed.



User bit

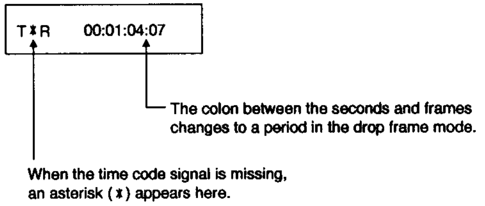
The "user bit" refers to the 32-bit (8-digit) data frame among the time code signals which has been released to users.

Time Code/User Bit Playback

1. Set the unit to the stop mode.
2. Set the TC/CTL button to TC.
3. Set the TC/UB switch to TC or UB.
   TC: The time code is displayed.
   UB: The user bit is displayed.
   - When it is no longer possible to read the time code, it is interpolated using the CTL signal.
4. Press the PLAY button.
   Playback now commences, and the time code appears on the display.
   When "ON" has been selected as the setup menu item No. 007 (SUPER), the time code value is superimposed onto the video signal from the VIDEO OUT 3 connector.

<Notes>

- The colon between the seconds and frames changes to a period when the drop frame time code is read.
- When the time code signal is missing, it is automatically compensated for using the CTL signal. In this case, the following display appears.

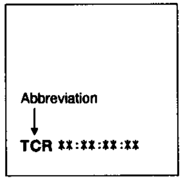


The colon between the seconds and frames changes to a period in the drop frame mode.

When the time code signal is missing, an asterisk (*) appears here.

Superimpose Screen

The control signals, time code, etc. are displayed using abbreviations.

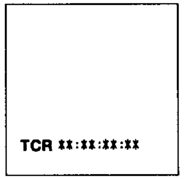


CTL = control signal
TCR = TC time code reading
UBR = TC user bit reading

TV monitor

Characters displayed

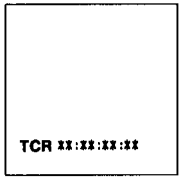
The background of the characters superimposed on the display can be changed using setup menu item No. 011 (CHARA TYPE).



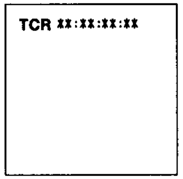
TV monitor

Display position

The position of the characters superimposed on the display can be changed using setup menu items No. 009 (CHARA H-POS) and No. 010 (CHARA V-POS).



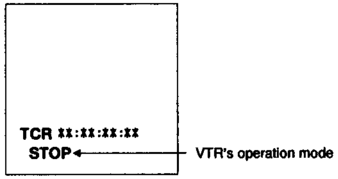
TV monitor



TV monitor

Operation mode

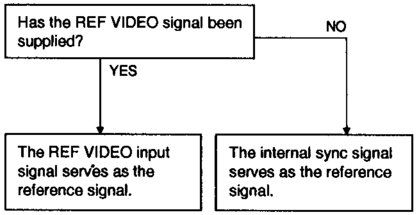
The VTR's operation mode can also be displayed using setup menu item No. 008 (DISPLAY SEL).



TV monitor

Servo Reference

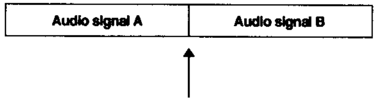
This unit automatically selects the reference video signal which is supplied from the REF VIDEO input connector or the internal sync signal (INT) as the servo reference signal.
When the signal is selected, the unit's mode and servo reference setting stand in the relationship shown in the flowchart presented below.


Has the REF VIDEO signal been supplied?
NO
YES
The REF VIDEO input signal serves as the reference signal.
The internal sync signal serves as the reference signal.

Audio V Fade Function

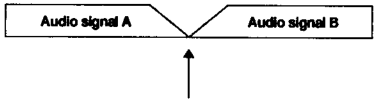
When a tape is edited, the information on the edit point splicing method selected is recorded on the tape. This information is therefore sensed when the tape is inserted and played back, and V fade or cut processing is automatically performed for these sections [but only when "AUTO" has been set as the playback fade selection (setup menu item No. 727)].

When "CUT" is set as the edit point splicing method


Audio signal A
Audio signal B

Noise is generated at the edit splice.

When "FADE" is set as the edit point splicing method


Audio signal A
Audio signal B

V fade is performed for an instant to eliminate the noise.

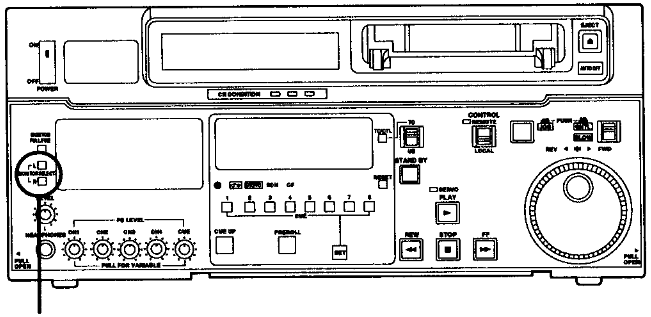
<Notes>
- When "CUT" is set as the edit point splicing method (setup menu item No. 727), cut processing is performed for all the splices.
- When "FADE" is set as the edit point splicing method (setup menu item No. 727), V fade processing is performed for all the splices.

Selecting the Audio Monitor Output

Monitor output channels

The monitor output channels can be selected using the MONITOR SELECT switches as shown below.

Monitor output	Output signals
L	CH1/CH2/CH3/CH4/CH1+CH2/CH3+CH4/CUE
R	CH1/CH2/CH3/CH4/CH1+CH2/CH3+CH4/CUE



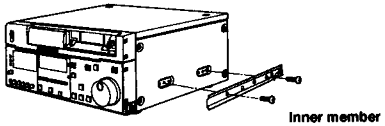
MONITOR SELECT switches

Rack Mounting

The unit can be mounted into a 19-inch standard rack if the AJ-MA75P rack-mounting adapters (optional accessory) are used. For the installation rails, it is recommended that the rail and bracket for 18" length (model number CC3061-99-0400) of CHASSIS TRAK be used. (The complete slide rail and bracket unit is not available from Panasonic.) For further details, consult with your dealer.

1. Remove the screws on the left and right sides of the unit.

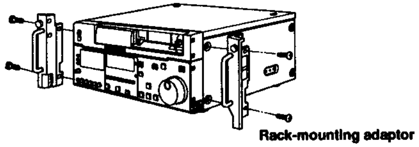
2. Use the screws which have just been removed to attach the inner members of the slide rails.



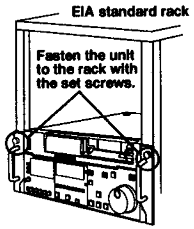
The length of the screws used is subject to restriction. If some of the mounting screws have been lost or misplaced, use screws which are less than 2/5" long in their place. Four screws must be used to secure each inner member.

3. Attach the outer member brackets to the rack.
   Check that the height is the same for the left and right brackets.

4. Attach the AJ-MA75P rack-mounting adapters with the four screws supplied.



5. Remove the four rubber feet from the bottom of the unit, and install the unit in the rack. After the unit has been installed, check that it moves smoothly along the rails.



<Notes>
- Keep the temperature inside the rack to between 41°F and 104°F (5°C and 40°C).
- Bolt the rack securely to the floor so that it will not topple over when the VTR is drawn out.

Video Head Cleaning

This unit has an auto head cleaning function which automatically reduces the dirt on the heads. However, to further increase the unit's reliability, it is recommended that its video heads be cleaned every day.
Use the cleaning fluid designated by Panasonic.

Condensation

Condensation forms due to the same principle involved when droplets of water form on a window pane of a heated room. This phenomenon occurs when the unit or tape is moved between places where the temperature or humidity varies greatly or when, for instance:

- It is moved to a very humid place full of steam or a room immediately after it has been heated up.
- It is suddenly moved from an air-conditioned location to a hot or humid location.

When moving the unit or tape to locations such as these, leave it standing for about 10 minutes instead of switching on the power immediately.
If condensation has formed on or in the unit, the AUTO OFF lamp lights, and the cassette tape is automatically ejected.
Keep the power supplied and wait until the AUTO OFF lamp goes off.

■ Maintenance

Before proceeding with maintenance, be absolutely sure to set the power switch to OFF and take hold of the power plug and unplug it from the power outlet.
Use a soft cloth to clean the cabinet. In the case of stubborn dirt, dilute some kitchen detergent, soak a cloth in the solution, wring it out well, and wipe the surfaces clean. Then wipe up the remaining moisture using a dry cloth.

Error Messages

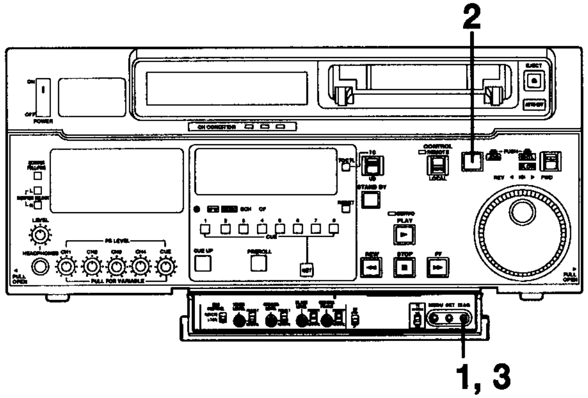
When a warning occurs in this unit, the warning lamp lights up.
Open the DIAG menu. A description of the warning will now appear on the counter display and TV monitor. In addition, if trouble has occurred in the operation of the unit, the AUTO OFF lamp lights, and a message appears on the counter display.

DIAG menu

This displays the VTR information.
The VTR information includes the warning information, the deck's serial number, and hour meter (usage time) information. The DIAG menu appears on the TV monitor when the TV monitor has been connected to the VIDEO OUT 3 connector on the connector panel.

Displaying the DIAG menu

1. Press the DIAG button.
   The DIAG menu screen appears on the TV monitor, and a message appears on the counter display.
2. Each time the search button is pressed, the display is switched to the warning information, the deck's serial number and hour meter information in this order.
3. Press the DIAG button to return to the original display.



Warning information display

- A warning message appears whenever a warning occurs (the warning lamp lights). When a warning has not occurred, "NO WARNING" is displayed.
- When more than one warning has occurred, a description of each warning can be checked by turning the search dial.

Displaying the hour meter information

Turn the search dial to move the cursor (*), and a description of the item where the cursor is located will appear on the counter display.

Item No.	Item	Description
Ser	*********	This displays the deck's serial number.
H00	OPERATION	This displays the number of hours during which the power has been supplied in 1-hour units.
H01	DRUM RUN	This displays the number of hours during which the drum has been rotating in 1-hour units.
H02	TAPE RUN	This displays the number of hours during which the tape has traveled in the FF, REW, PLAY and SEARCH (JOG, VAR, SHTL) modes in 1-hour units.
H03	THREADING	This displays the number of times the tape has been threaded and unthreaded in 1-time units.
H11	DRUM RUN r	This displays the number of hours during which the drum has been rotating in 1-hour units. (The display can be reset.)
H12	TAPE RUN r	This displays the number of hours during which the tape has traveled in the FF, REW, PLAY and SEARCH (JOG, VAR, SHTL) modes in 1-hour units. (The display can be reset.)
H13	THREADING r	This displays the number of times the tape has been threaded and unthreaded in 1-time units. (The display can be reset.)
H30	POWER ON	This displays the number of times the power has been turned on in 1-time units.

<Notes>

- The hour meter information items which can be reset are reset by the dealer when maintenance work, etc. has been performed.
- Operations involving the search button and search dial cannot be performed while the DIAG menu is displayed.

If "T&S&M" has been selected as the setup menu item No. 008 (DISPLAY SEL) setting, the message will appear on the mode display area when a warning or error has occurred. When two or more warnings or errors have occurred, they are displayed in sequence of priority starting with the one which has the highest priority.

Priority	Display	Description
High ↑	Error messages (see error message table)	When trouble has occurred in the operation of the unit, the AUTO OFF lamp lights, and an error message is displayed.
	ILLEGAL REF	When illegal signals, which are not black burst or other composite signals complying with the broadcast standards (525: RS-170A, 625: CCIR624), have been supplied to the REF VIDEO input connector, the message shown on the left may appear depending on the signal concerned. Since, in a case like this, it cannot be guaranteed that the VTR will operate properly, eject the cassette and turn off the power. Check the REF VIDEO signals before turning the power back on. <Note> The tape will not be damaged even when this message appears.
↓ Low	Warning messages (see error message table)	When a warning occurs, the warning lamp lights, and a warning message is displayed. When two or more warnings have occurred, they are displayed in sequence of priority starting with the one which has the highest priority.

Warning messages

Priority	On counter display and TV monitor	Description	VTR operation
High ↑	FAN STOP	This appears when the fan motor has stopped.	The VTR continues operating.
	NO RF	This appears when a blank portion of the tape lasting more than 1 second has been detected during playback. Any portion of the tape is recognized as a blank when all the following conditions are satisfied: • When no signals are output from any of the heads. • When no playback data can be read. • When there is no CTL signal (this does not apply with DV tapes for general consumer applications).	The VTR continues operating.
	SERVO NOT LOCKED	This appears when the servo is not locked for 3 or more seconds during playback.	The VTR continues operating.
	LOW RF	This appears when it has been detected that the envelope level has dropped to approximately one-third of its usual level during playback.	The VTR continues operating.
↓ Low	HIGH ERROR RATE	This appears when the error rate increases, and correction or interpolation is performed for either the video or audio playback signals.	The VTR continues operating.

Error Messages (when AUTO OFF lamp lights)

On counter display	On TV monitor	Description	VTR operation (restart action)
CAP ROTATE TOO SLOW	**CAP ROTA TOO SLOW**	When the capstan motor speed is abnormally low, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
CAP TENSION ERROR	**CAP TENSION ERROR**	When abnormal tension is detected at the supply side in the capstan mode, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
DEW	**DEW**	When condensation is detected, the AUTO OFF lamp lights, the message display flashes, and the VTR is transferred to the eject mode. After the tape is ejected, the drum rotates in order to dry out the condensation. When the condensation has dried out, the AUTO OFF lamp goes off, the message display is cleared, and the VTR can be operated again. • When condensation is detected in the eject mode, the drum starts rotating as soon as it is detected. • When condensation is detected when the cassette has been inserted, the drum rotation is stopped, and after the tape is ejected, the drum starts rotating.	Eject
DRUM ROTATE TOO FAST	**DRUM ROTA TOO FAST**	When the cylinder motor speed is abnormally high, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
DRUM ROTATE TOO SLOW	**DRUM ROTA TOO SLOW**	When the cylinder motor speed is abnormally low, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
E-FF	**E-FF**	When the tape start and tape end are detected simultaneously either during or after loading, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
FRONT LOAD ERROR	**FRONT LOAD ERROR**	When the take-up reel has been rotating without taking up the tape for a specific period of time while the start or end processing operation during loading (half position) is being performed, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
FRONT LOAD MOTOR	**FRONT LOAD MOTOR**	When the cassette fails to move up even when 6 seconds have elapsed after the eject mode was established, the AUTO OFF lamp lights, and the message display flashes. <Note> When the cassette fails to move down even when 6 seconds have elapsed after the cassette was inserted, the eject mode is established.	Stop (power OFF→ON)
LOADING MOTOR	**LOADING MOTOR**	When the unloading operation fails to be completed within 6 seconds, the AUTO OFF lamp lights, and the message display flashes. <Note> When the loading operations fails to be completed within 6 seconds, the eject mode (unloading mode) is established.	Stop (power OFF→ON)
REEL DIR UNMATCH	**REEL DIR UNMATCH**	When the take-up reel motor is running in the reverse direction, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)

On counter display	On TV monitor	Description	VTR operation (restart action)
REEL TENSION ERROR	**REEL TENSION ERROR**	When abnormal tension at the supply side is detected in the reel mode, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
SERVO COMM ERROR	**SERVO COMM ERROR**	When the servo microcomputer does not follow the instructions of the system control microcomputer even after 10 seconds have elapsed, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
SERVO CONTROL ERROR	**SERVO CONTROL ERR**	When there is no response from the servo microcomputer for 1 or more seconds, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
SERVO ERROR	**SERVO ERROR**	When only the servo microcomputer was reset in an instantaneous power failure, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
S-FF/REW TIMEOVER	**S-FF/REW TIMEOVER**	When the start or end processing operation fails to be completed, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
S REEL ROTA TOO FAST	**S REEL TOO FAST**	When the supply reel motor rotates at an abnormally fast rate, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
S REEL TORQUE ERROR	**S REEL TORQUE ERR**	When an abnormal torque applied to the supply reel motor is detected or an abnormal current flowing to the current-sensing resistor is detected, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
T REEL ROTA TOO FAST	**T REEL TOO FAST**	When the take-up reel motor rotates at an abnormally fast rate, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
T REEL TORQUE ERROR	**T REEL TORQUE ERR**	When an abnormal torque applied to the take-up reel motor is detected, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
UNLOAD ERROR	**UNLOAD ERROR**	When the tape has not been wound up during unloading, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
WINDUP ERROR	**WINDUP ERROR**	If, after the total tape amount has been detected, the amount of tape wound up on the take-up reel and the amount of tape supplied by the supply reel differ to an abnormal extent while the tape is traveling, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)
WINDUP REEL NOT ROTA	**W-UP REEL NOT ROTA**	If, after the cassette has been inserted, the tape take-up reel has not wound up the tape while the total tape amount is not detected and while the tape is traveling, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF→ON)

RS-232C Interface

1. Introduction

(1) The VTR can be operated by commands when the RS-232 interface is used.
(See command tables on pages 67 to 69.)

(2) Conditions for acknowledging commands from the RS-232C interface

The front panel REMOTE/LOCAL switch must be set to REMOTE.
The setup menu item No. 204 (RS232C SEL) must be set to ON.

If the above conditions are not met, [ACK] + [STX] ER001 [ETX] is returned to the external unit.
Whether the [ACK] code is returned depends on the setting which has been selected for setup menu item No. 209 (RETURN ACK).

2. Hardware specifications

External interface specifications

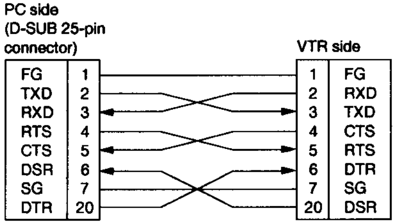
(1) Connector specifications

Connector: D-SUB 25-pin (crossover cable supported)

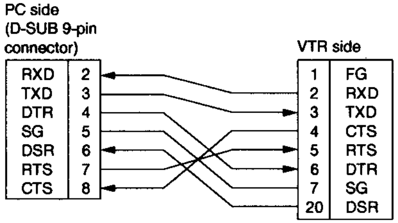
Pin No.	Signal	Circuit name	Description
1	FG	Protective ground	Frame ground
2	RXD	Received data	Data is sent to PC.
3	TXD	Transmitted data	Data is received from PC.
4	CTS	Clear to send	Shorted with pin 5.
5	RTS	Request to send	Shorted with pin 4.
6	DTR	Data terminal ready	Not processed
7	SG	Signal ground	Signal ground
20	DSR	Data set ready	+ voltage output after communication enable status

(2) Example of connections with controller (PC)

(Using crossover cable with D-SUB 25-pin connectors)



(Using crossover cable with D-SUB 9-pin and 25-pin connectors)



3. Software specifications

Protocol

1) Communication parameters

Communication system	Asynchronous, full duplex
Baud rate	300, 600, 1200, 2400, 4800, 9600 bps
Data length	7 bits or 8 bits
Stop bit	1 bit or 2 bits
Parity bit	None, odd or even
ACK code	ACK code returned or not returned **<Note>** The ACK code is what is returned from the VTR to the controller when data has been sent successfully from the controller.

"__" denotes the factory setting.

Changes to the settings can be made using the setup menu items listed below.

Communication parameter	Setup menu item
Communication system	No. 205 BAUD RATE
Data length	No. 206 DATA LENGTH
Stop bit	No. 207 STOP BIT
Parity bit	No. 208 PARITY
ACK code	No. 209 RETURN ACK

2) Send format [controller (PC) → VTR]

■ Data format

```
[STX] [command] [:] [data] [ETX]
 02h   XX XX XX 3Ah XX-XX  03h      ←(ASCII code: symbols, numbers, upper-case letters)

             20h<XX<7Fh
```

- [command]: Command identifier; a 3-byte identifier (ASCII code: symbols, numbers, upper-case letters) is sent as the command.
- [:]: The colon serves as a delimiter between the command and data.
- [data]: Data (ASCII code: symbols, numbers, upper-case letters) can be added in the number of bytes required.

■ Outline of procedure for sending data from controller

1. The send command starts with STX (start of text = 02h). The command is then identified by COMMAND which follows, and the data is added as required.
   The format ends with ETX (end of text = 03h).
2. When a different command is to be sent, a response is awaited from the VTR, and then the command is sent. (See page 66.)
3. If STX is sent again before ETX is sent, the receive data buffer inside the VTR is cleared. A command error is returned to the controller, and the data is newly processed with STX, which was received again, at the head.

(3) Return format [VTR → controller (PC)]

The following responses are made to the command. If necessary, more than one response may be made.

■ When the communication has terminated normally

1. The receive completion message is returned.
   [ACK]
   06h
2. The execution completion message is returned.
   [STX] [command] [data] [ETX]
   02h XX XX XX XX-XX 03h

- [command]: This is the message (data) which is returned or the execution completion message identifier.
- [data]: This is the data to be returned. It can be omitted.

```
[example]: Send command              Return message (data)
           [STX] OPL [ETX]    →      [ACK] [STX] OPL [ETX]
```

■ When the communication has terminated abnormally

[NACK]
15h

■ When processing is not possible due to incorrect data or trouble in the VTR

1. The receive completion message is returned.
   [ACK]
   06h
2. An error code is returned.
   [STX] E R N_1 N_2 N_3 [ETX]
   02h Error code 03h

4. Error code table

ER001: Invalid command
- Unsupported command received
- Error in command execution

ER002: Parameter error
ER102: VTR mode error (front loading motor)
ER103: VTR mode error (loading motor)
ER104: VTR mode error (drum, capstan system)
ER105: VTR mode error (reel system)
ER106: VTR mode error (tension system)
ER108: VTR dew (condensation) error
ER1FF: VTR system error

5. Command table

(1) Commands relating to operation control

<Notes>

- Under the "return (completion) message," only the execution messages which are returned after [ACK] is returned when data is received are listed.
- In the case of commands not listed in the table, ER001 (invalid command) is returned after [ACK] has been returned.

VTR operation	Send command	Return (completion) message	Supplementary notes
STOP	[STX] OSP [ETX]	[STX] OSP [ETX]	This command is for stopping the tape travel.
EJECT	[STX] OEJ [ETX]	[STX] OEJ [ETX]	This command is for ejecting the cassette tape. The output picture status differs according to the setup menu item No. 111 (FRZ MODE SEL) setting. For details, refer to the setup menu item.
PLAY	[STX] OPL [ETX]	[STX] OPL [ETX]	This command is for starting playback.
REWIND	[STX] ORW [ETX]	[STX] ORW [ETX]	This command is for rewinding the tape. The maximum tape speed differs according to the setup menu item No. 102 (FF. REW MAX) setting. For details, refer to the setup menu item.
FAST FORWARD	[STX] OFF [ETX]	[STX] OFF [ETX]	This command is for fast forwarding the tape. The maximum tape speed differs according to the setup menu item No. 102 (FF. REW MAX) setting. For details, refer to the setup menu item.
SHTL FORWARD	[STX] OSF:data [ETX]	[STX] OSF [ETX]	This is the forward direction shuttle command.
	data = n: speed data 0: STILL (STILL) 1: ×0.03 (×0.03) 2: ×0.1 (×0.1) 3: ×0.2 (×0.2) 4: ×0.5 (×0.5) 5: ×1 (×1) 6: ×1.85 (×18.5) 7: ×4.1 (×3.1) 8: ×9.5*1 (×9.5*1) 9: ×16*1 (×16*1) A: ×32*1 (×32*1) *1: [This speed differs according to the setup menu item No. 101 (SHTL MAX) setting.] The speeds for the DV format are given in parentheses.		

VTR operation	Send command	Return (completion) message	Supplementary notes
SHTL REVERSE	[STX] OSR:data [ETX]	[STX] OSR [ETX]	This is the reverse direction shuttle command.
	data = n: speed data 0: STILL (STILL) 1: ×0.03 (×0.03) 2: ×0.1 (×0.1) 3: ×0.2 (×0.2) 4: ×0.5 (×0.5) 5: ×1 (×1) 6: ×1.85 (×18.5) 7: ×4.1 (×3.1) 8: ×9.5*1 (×9.5*1) 9: ×16*1 (×16*1) A: ×32*1 (×32*1) *1: [This speed differs according to the setup menu item No. 101 (SHTL MAX) setting.] The speeds for the DV format are given in parentheses.		
STANDBY OFF	[STX] OBF [ETX]	[STX] OBF [ETX]	This command is for setting the VTR to STANDBY OFF.
STANDBY ON	[STX] OBN [ETX]	[STX] OBN [ETX]	This command is for setting the VTR to STANDBY ON.

(2) Commands related to inquiries

<Notes>

- Under the "return (completion) message," only the execution messages which are returned after [ACK] is returned when data is received are listed.
- In the case of commands not listed in the table, ER001 (invalid command) is returned after [ACK] has been returned.

VTR operation	Send command	Return (completion) message	Supplementary notes
CTL/TC DATA REQUEST	[STX] QCD [ETX]	[STX] CD data [ETX]	This command is for inquiring about the counter value.
		data = f w gh mm ss ff f = F w = S gh = CTL: g = SP (20h): for a plus display – (2Dh): for a minus display h = 0 – 9: hours TC: gh = 00 – 23: hours mm = 00 – 59: minutes ss = 00 – 59: seconds ff = 00 – 29: frames (525 mode) = 00 – 24: frames (625 mode)	CTL or TC is returned, whichever corresponds to the front display mode.
STATUS REQUEST	[STX] QOP [ETX]	[STX] xxx [ETX]	This command is for inquiring about the VTR's operation mode.
		xxx = OEJ: EJECT OFF: FAST FORWARD OPL: PLAY ORW: REWIND OSP: STOP (including STANDBY ON) SRS: PREROLL OBF: STANDBY OFF OSF: SHTL FORWARD OSR: SHTL REVERSE OJG: JOG FORWARD/REVERSE OSW: VAR FORWARD/REVERSE	
ID (VTR No.) REQUEST	[STX] QID [ETX]	[STX] data [ETX]	This command is for inquiring about the VTR used.
		data = AJ-D940	

(3) Microsoft QuickBASIC sample program

```
CLS
STX$ = CHR$(&H2): ETX$ = CHR$ (&H3): NAK$ = CHR$(15): ACK$ = CHR$(&H6)
PRINT "*** RS-232C COMMUNICATION SAMPLE PROGRAM ***"
PRINT "Type Command 'QUIT' to quit."
PRINT

REM *** Communication Port Initial & Open ***
REM Port 1,9600Bps,No parity,8 bit data,1 stop bit
OPEN "COM1:9600,N,8,1" FOR RANDOM AS #1 LEN = 256

REM *** Input Command & Send Command ***
SendCmd:
INPUT "Input Command ="; SEND$
IF SEND$ = "QUIT" THEN GOTO ProgEnd
PRINT #1, STX$ + SEND$ + ETX$

REM *** Wait for Receive Command ***
WHILE LOC(1) = 0
        WAITKEY$ = INKEY$
        IF WAITKEY$ = "Q" THEN PRINT "*** Quit ***": GOTO ProgEnd
WEND

REM *** Receive Command ***
RecvCmd:
RECV$ = INPUT$(1, #1)
IF RECV$ = STX$ THEN RECV$ = "[Stx]"
IF RECV$ = ACK$ THEN RECV$ = "[Ack]"
IF RECV$ = NAK$ THEN RECV$ = "[Nak]"
IF RECV$ = ETX$ THEN BUFFER$ = BUFFER$ + "[Etx]": GOTO DispOut
BUFFER$ = BUFFER$ + RECV$
GOTO RecvCmd

REM *** Output Receive Command ***
DispOut:
PRINT "Receive Command ="; BUFFER$
PRINT
BUFFER$ = ""
GOTO SendCmd

REM *** End Program ***
ProgEnd:
CLOSE
END
```

Microsoft QuickBASIC is a trademark of Microsoft Corporation.

Connector Signals

REF VIDEO IN

REF VIDEO IN	BNC × 2	Loop-through, 75Ω termination switch provided

VIDEO OUT

SERIAL OUT (DIGITAL)	BNC × 3	
Y, P_B, P_R (ANALOG)	BNC × 3	
VIDEO OUT	BNC × 3	

AUDIO OUT

SERIAL OUT (DIGITAL)	BNC × 3	
AUDIO OUT (DIGITAL)	XLR × 2	CH1/CH2, CH3/CH4 AES/EBU format
AUDIO OUT (ANALOG)	XLR × 4	CH1, CH2, CH3, CH4
CUE OUT	XLR × 1	
TIME CODE OUT	XLR × 1	
MONITOR OUT	XLR × 2	L/R
HEADPHONES (front panel)	1/4" phone	

Pin No.	Signal
1	GND
2	HOT
3	COLD

RS-422A REMOTE (9P)

REMOTE IN

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	FRAME GROUND	4	RECEIVE COMMON	7	TRANSMIT B
2	TRANSMIT A	5	———	8	RECEIVE A
3	RECEIVE B	6	TRANSMIT COMMON	9	FRAME GROUND

REMOTE OUT

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	FRAME GROUND	4	TRANSMIT COMMON	7	RECEIVE B
2	RECEIVE A	5	———	8	TRANSMIT A
3	TRANSMIT B	6	RECEIVE COMMON	9	FRAME GROUND

Connector Signals

PARALLEL REMOTE (25P)

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	PLAY COMMAND	10	———	19	STAND BY ON STATUS
2	STOP COMMAND	11	———	20	PREROLL STATUS
3	FF COMMAND	12	≥10V, MAX 300mA	21	SERVO LOCK STATUS
4	REW COMMAND	13	PLAY STATUS	22	OPERATION ENABLE STATUS
5	———	14	STOP STATUS	23	———
6	EJECT COMMAND	15	FF STATUS	24	———
7	STAND BY COMMAND	16	REW STATUS	25	GND
8	PREROLL COMMAND	17	———		
9	IN SET COMMAND	18	EJECT STATUS		

<Notes>

- Supply TTL level, active low electrical signals with an edge of 100 ms or more to the COMMAND pins.
- The STATUS pins are open collector outputs; a max. sink current of 6 mA is output from these pins.

RS-232C REMOTE (D-SUB 25 pins, crossover cable supported)

Pin No.	Signal	Circuit name	Description
1	FRAME GROUND	Protective ground	Frame ground
2	RxD	Received data	Data is sent to PC.
3	TxD	Transmitted data	Data is received from PC.
4	CTS	Clear to send	Shorted with pin 5.
5	RTS	Request to send	Shorted with pin 4.
6	DTR	Data terminal ready	Not processed
7	GS	Signal ground	Signal ground
20	DSR	Data set ready	+ power output after communication enable status

ENCODER REMOTE (15P)

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	———	6	SYSTEM H 0	11	RET GND
2	SET UP	7	SYS.SC COARSE (2)	12	———
3	C LEVEL	8	–12V	13	———
4	GND	9	HUE	14	SYS.SC FINE
5	+12V	10	VIDEO LEVEL	15	SYS.SC COARSE (1)

Operating instruction for AJ-D940E

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Before attempting to operate the unit, check that all the accessories are present and accounted for.

Power cord....1 pc

Options
- AJ-CS750P cassette adapter
- AJ-MA75P rack-mounting adapters

Introduction and Features

The AJ-D940 is a multi-purpose studio digital VTR which uses 1/4-inch wide compact cassette tapes and which is designed exclusively for slow-motion playback with a high picture quality at a 50 Mbps video recording rate. It is capable of playing back existing DVCPRO (25 Mbps) cassette tapes as well. It is equipped with a 525/625 switchable function to enable it to be operated as a studio VTR anywhere in the world.

This VTR with its high picture quality, which is due to the incorporation of digital compression technology, significantly reduces the deterioration in the quality of both sound and pictures which accompanies dubbing operations. Its compact 4U size and light-weight design makes it easy for the unit to be carried around and installed in a 19-inch rack.

A dialogue system enables the unit's setup settings to be performed while monitoring the on-screen menus that appear on the TV monitor.

Features

Compact size and light weight

This digital VTR has a 4U size. This means that it is easy to install it in a 19-inch rack, too, if the rack-mounting adapters (optional accessory, AJ-MA75P) are used.

Up to 92 minutes of playback time

Two sizes of cassette tape, the M size (for up to 33 minutes of playback time) and L size (for up to 92 minutes of playback time), can be used with this unit.

The tape has a 1/4-inch width for a compact design.

High picture quality

A high picture quality is achieved using 4:2:2 component signals whose recording rate is twice as high as that of the existing DVCPRO format.

625i/525i switchable function

By setting the 625i/525i selector switch to the setting that corresponds to the TV system of the signals (625i or 525i) recorded on the tape, the signals of either TV system can be played back.

Compatibility with DVCPRO format

Tapes recorded using the existing DVCPRO format can be played back on this unit.

Compatibility with general consumer video equipment

Cassette tapes designed for general consumer applications containing material shot by a consumer digital camera can be played back on this unit if the cassette adapter (optional accessory, AJ-CS750P) is used.

<Note>

Tapes recorded in the LP consumer mode cannot be played back.

Digital slow motion/dial jog functions

Using Panasonic's very own digital slow-motion technology, pictures played back in slow motion at the following speeds can be reproduced clearly.

DVCPRO50 (50 Mbps):	–1× to +1× speed
DVCPRO (25 Mbps):	–2× to +2× speed
DV:	±0.03×, ±0.07×, ±0.1×, ±0.2×, ±0.4× to ±1×

Dial shuttle function

Shuttle operations enable colour pictures to be played back in the forward or reverse direction at a maximum of 32 times the normal tape speed.

Time code

The unit contains a time code reader (TCR).

Introduction and Features

Features

(continued)

Multi-functional interface capability

- **Serial digital output**
  The unit is equipped with a component serial interface connector to enable interfacing with serial digital component signals. (EBU Tech. 3267-E)
- **Analogue video output**
  Both component (Y, PB, PR) and composite output connectors are provided.
- **AES/EBU audio output**
  The unit comes with digital audio output connectors.
- **SDTI output (option)**
- **9-pin RS-422A/RS-232C remote**
  In addition to the standard 9-pin serial remote (RS-422A) connector, both RS-232C and 25-pin parallel remote connectors are provided.

4-channel digital audio for high sound quality

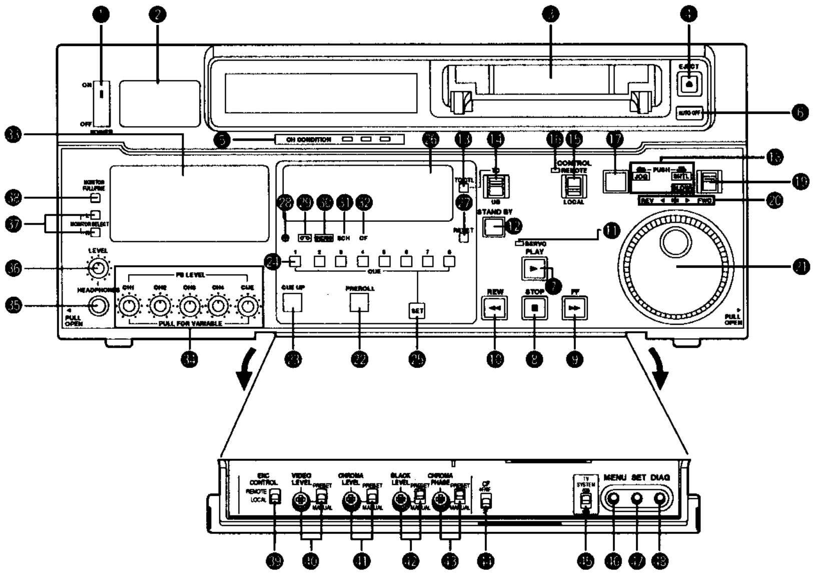
A 4-channel PCM audio capability plus another channel for the analogue cue track is featured.

Menu-operated setup

The settings for the setup prior to operating the unit are performed while viewing the setup menus which appear on the unit's display or the TV monitor.

Parts and Their Functions

Front panel


ON
OFF
POWER
EJECT
AUTO OFF
CH CONDITION
CONTROL
REMOTE
LOCAL
STAND BY
SERVO
PLAY
REW
STOP
FF
MONITOR SELECT
LEVEL
HEADPHONES
PULL OPEN
PB LEVEL
CH1
CH2
CH3
CH4
CUE
PULL FOR VARIABLE
CUE UP
PREROLL
SET
RESET
JOG
SHTL
REV
FWD
ENC CONTROL
REMOTE
LOCAL
VIDEO LEVEL
CHROMA LEVEL
BLACK LEVEL
CHROMA PHASE
PRESET
MANUAL
MENU
SET
DIAG

<Front panel top area>

① POWER switch

② TV system and format display
The selected TV system and format are displayed here.
<625/525>
625: This lights when the 625 TV system is selected.
525: This lights when the 525 TV system is selected.
<25 Mbps/50 Mbps>
25 Mbps: This indicates the DVCPRO (25 Mbps) and DV playback mode. In the case of the DVCPRO (25 Mbps) playback mode, the DVCPRO (25 Mbps) cassette playback display lamp ㉚ in the centre of the front panel also lights.
50 Mbps: This indicates the DVCPRO50 (50 Mbps) playback mode.

③ Cassette insertion slot

④ EJECT button
When this button is pressed, the tape inside is unloaded and several seconds later it is automatically ejected.
If the counter display area is set to the CTL display, the display will be reset.

⑤ Channel condition lamps
One of these lamps lights in accordance with the error rate statuses. (Green → Amber → Red)
Green: This lamp lights when the error rates for both the video and audio playback signals are at an acceptable level.
Amber: This lamp lights when the error rate for either the video and audio playback signals has deteriorated. A normal playback picture will appear even when this lamp is lit.
Red: This lamp lights when either the video or audio playback signals are subject to correction or interpolation.

⑥ AUTO OFF lamp
This lights when trouble has occurred in the unit's operation.

<Front panel centre>

⑦ PLAY button
This button is pressed to commence playback.

⑧ STOP button
This button is pressed to stop the tape travel.
The tape drum continues to rotate even in the stop mode, and the tape remains in close contact with the drum.
When the stop mode continues beyond the prescribed period of time, the unit is automatically set to the standby OFF mode in order to protect the tape.
The stop mode is established immediately after a cassette has been inserted into the unit.

⑨ FF button (see *[1])
This button is pressed to fast forward the tape.

⑩ REW button (see *[1])
This button is pressed to rewind the tape.

⑪ SERVO lamp
This lamp lights when the drum servo and capstan servo lock.

⑫ STANDBY button
While the same level of tape tension is applied as in the regular stop mode and the head drum continues to rotate, the lamp in the button lights to indicate that the standby ON mode is established.
The tape is set to the half-loading mode when the standby OFF mode is established.
When this button is pressed in the stop mode, the standby OFF mode is established and the tape is set to the half-loading mode. At this time, the lamp in the button will go off.
When the stop mode continues beyond the prescribed period of time, the unit is automatically set to the standby OFF mode in order to protect the tape.
When either this button or the STOP button is pressed in the standby OFF mode, the standby ON mode is established. When a function button other than the STOP button is pressed, the tape will be set to the mode corresponding to the pressed button.
The time taken for operation to transfer to the standby OFF mode can be set on-screen.

⑬ TC/CTL switch
When this switch is pressed, what appears on the counter display changes from TC to CTL or vice versa. When TC is selected, either the TC or UB value will be displayed depending on the position to which the TC/UB switch has been set.

⑭ TC/UB switch
This selector switch is used to indicate either the TC value or UB value on the counter display area when the TC/CTL switch has been set to the TC position.

⑮ REMOTE/LOCAL switch
This switch is provided to enable the unit to be controlled from an external source using the REMOTE, RS-232C or parallel connector.
REMOTE: Set here when the unit is to be controlled using the 9-pin REMOTE, RS-232C or parallel remote connector.
LOCAL: Set here when the unit is to be controlled using the controls on its operation panel.

*[1] The fast forward or rewind speed can be selected using setup menu item No. 102 (FF.REW MAX).

<Front panel centre>

⑯ REMOTE lamp
This lamp lights when the REMOTE setting has been selected by the REMOTE/LOCAL switch.

⑰ Search button
This button is pressed to establish the search mode.
When this button is pressed after the search dial is set to the shuttle mode and turned to the desired position, playback will commence at the speed which has been set by the search dial.

⑱ JOG, SHTL and SLOW lamps
These lamps indicate the current status of the search dial and SHTL/SLOW switch.

JOG:	This lights when the JOG mode is established.
SHTL (shuttle):	This lights when the SHTL mode is established.
SLOW:	This lights when the VAR mode is established.

⑲ SHTL/SLOW switch
This selector switch is set when the search dial is to be used for SHTL or VAR purposes.

⑳ REV, STILL and FWD lamps
These lamps light in accordance with the search dial operation.

REV:	This lights when the dial is rotated counterclockwise, and if the search button lamp is also lit at this time, the tape travels in the reverse direction.
STILL:	In the JOG mode this lights when the dial rotation is stopped, and if the search button lamp is also lit at this time, the tape also stops travelling. In the shuttle mode, it lights when the dial is at the STILL position.
FWD:	This lights when the dial is rotated clockwise, and if the search button lamp is also lit at this time, the tape travels in the forward direction.

㉑ Search dial
This dial is used to locate the edit points.
Each time the dial is pressed, the shuttle mode or jog mode is selected alternately, and the JOG, SHTL or SLOW lamp lights.
When the unit's power is turned on, the search dial will not work unless it is first returned to the STILL position.

SHTL (shuttle) mode:	If the dial is rotated and stopped at the desired position when the SHTL/SLOW switch has been set to SHTL, the tape can be played back at the speed that corresponds to the angle to which the dial has been rotated. A still picture will appear when the dial is set to its centre position. When the SHTL/SLOW switch has been set to SLOW, the tape will travel at the −4.1× speed if the dial is rotated counterclockwise as far as it will go, a still picture will appear when it is set to its centre position, and the tape will travel at the +4.1× speed if the dial is rotated clockwise as far as it will go. The maximum speed at the SLOW setting can be selected by setup menu item No. 320 (VAR FWD MAX) or No. 321 (VAR REV MAX).
Jog mode:	The dial's clickstop positions are cleared, and the tape is played back at the speed (see *1) that corresponds to the speed with which the dial is rotated.

*1 DVCPRO50 (50 Mbps):	−1× to +1× speed
DVCPRO (25 Mbps):	−2× to +2× speed
DV:	−1× to +1× speed

<Front panel centre>

㉒ PREROLL button
This button is used to cue the tape for a transmission, etc.
If it is pressed when a CUE point has been selected (when the CUE lamp is flashing), the tape is prerolled to the CUE point, and a still picture appears on the screen.
If it is pressed when a CUE point has not been selected, the tape will be prerolled from the point where the button was pressed, and a still picture will appear on the screen.
- The preroll time can be set using setup menu item No. 000 (P-ROLL TIME).

㉓ CUE UP button
This button is used to cue the tape for a transmission, etc.
If it is pressed when a CUE point has been selected (when the CUE lamp is flashing), the tape is prerolled to the CUE point, and a still picture appears on the screen.
If it is pressed when a CUE point has not been selected, the tape will be prerolled from the point where the button was pressed, and a still picture will appear on the screen.
- The preroll time can be set using setup menu item No. 016 (CU-ROLL TIME).

㉔ CUE buttons 1 through 8
These buttons are used to enter, check or erase cue points.
When a button is pressed at a cueing position on the tape, the cue point will be entered in that button.
To check a cue point which has been entered, press the CUE button in which the point was entered.
To erase a cue point, press the RESET button while holding down the CUE button.

㉕ SET button
This button is used when cue points are to be entered or erased.
When it is pressed at the cueing position, the cue point will be entered and the corresponding CUE button's lamp will light. When it is pressed at positions to which the tape is be successively cued, the CUE buttons in which no cue points have been entered will light in sequence starting with the lowest number, and the cue points will be entered.
When the RESET button is pressed while the SET button is held down, all the registered cue points will be deleted.

㉖ Counter display area
The TC and CTL count values as well as the messages and other on-screen information appear on the counter display area.

㉗ RESET button
When this button is pressed in the CTL mode, the display is cleared to "00:00:00:00."

㉘ Warning lamp
This lamp lights when a warning is issued.

㉙ Cassette insertion display lamp
This lamp lights when a cassette has been inserted into the unit.

㉚ DVCPRO (25 Mbps) cassette playback display lamp
This lamp lights when a cassette recorded using the DVCPRO (25 Mbps) format is played back.

㉛ SCH lamp
This lamp lights when the SCH phase of the external sync signal is within the specified range.

<Front panel centre>

㉜ CF lamp
This lamp lights when the colour framing is locked.

㉝ Level meter
The playback levels for channels 1, 2, 3 and 4 of the PCM audio signals and for the cue track signals are displayed by this meter.

㉞ Audio output level controls
These controls are used to adjust the playback levels for channels 1, 2, 3 and 4 of the PCM audio signals and for the cue track signals.
They use a "pull to vary level" system which means that the levels can be adjusted after they have been pulled up. The unity (default) levels apply when they are pushed down.

㉟ Headphones jack
When a pair of stereo headphones are connected to this jack, the sound being played back can be monitored through the headphones.

㊱ Volume control
This control is used to adjust the headphones volume and monitor output volume.
Setup menu item No. 713 (MONI OUT) can be used to set whether the headphones output and monitor output are to be linked together or separated. (However, the headphones are always linked to the monitor output.) When the two outputs are separated, the monitor output is set the unity (default) level.

㊲ MONITOR SELECT switches
These switches are used to select the audio signals which are to be output to the monitor L and R channels.
Each time the "L" button is pressed, the signals which are to be output to the monitor L channel are switched in the following sequence: CH1, CH2, CH3, CH4, CUE, CH1, etc.
[This switching is disabled when CH1+2 or CH3+4 has been selected as the setup menu item No. 729 (MONI MIX L) setting.]
Each time the "R" button is pressed, the signals which are output to the monitor R channel are switched in the following sequence: CH1, CH2, CH3, CH4, CUE, CH1, etc.
[This switching is disabled when CH1+2 or CH3+4 has been selected as the setup menu item No. 730 (MONI MIX R) setting.]
The signals which have been selected are indicated by the L or R lamps which light on the level meter display area. [When AUTO has been selected as the setup menu item No. 721 (MONI CH SEL) setting, the display is switched in tandem with the monitor output.]

㊳ METER (FULL/FINE) selector switch
This switch is used to select the scale display on the audio level meter.
FULL mode: The standard scale (ranging from – ∞ to 0 dB) is selected.
FINE mode: The scale in 0.5 dB increments is selected.

<Front panel bottom>

㊴ ENCODER CONTROL switch
This switch is used to select whether the adjustments of the video output signals are to be performed using the controls either on the unit or on an external encoder remote controller.
REMOTE: The video output signals are adjusted using the controls on the external encoder remote controller.
LOCAL: The video output signals are adjusted using the controls on the unit.

㊵ VIDEO LEVEL control and switch
These enable the video level to be adjusted when the ENCODER CONTROL switch has been set to the LOCAL position.
When the VIDEO LEVEL switch is set to PRESET, the video level is set to the unity (0 dB) level. When it is set to MANUAL, the video level can be adjusted using the control.

㊶ CHROMA LEVEL control and switch
These enable the chroma level to be adjusted when the ENCODER CONTROL switch has been set to the LOCAL position.
When the CHROMA LEVEL switch is set to PRESET, the chroma level is set to the unity (0 dB) level. When it is set to MANUAL, the chroma level can be adjusted using the control.

㊷ BLACK LEVEL control and switch
These enable the black level to be adjusted when the ENCODER CONTROL switch has been set to the LOCAL position.
When the BLACK LEVEL switch is set to PRESET, the black level is set to the unity (0 IRE) level. When it is set to MANUAL, the black level can be adjusted using the control.

㊸ CHROMA PHASE control and switch
These enable the chroma phase to be adjusted when the ENCODER CONTROL switch has been set to the LOCAL position.
When the CHROMA PHASE switch is set to PRESET, the hue is set to the unity (0°) level. When it is set to MANUAL, the chroma phase can be adjusted using the control.

㊹ CF switch
This switch is used to select either 4- or 8-field or 2-field increments for the playback framing lock.
4F/8F: 625 mode = The framing is locked in 4 or 8-field increments. The setup menu item No. 108 (CAP.LOCK) setting is used to switch between 4-field or 8-field increments.
525 mode = The framing is locked in 4-field increments.
2F: The framing is locked in 2-field increments.

㊺ TV SYSTEM selector switch
This switch is used to select the TV system. For this setting to take effect, the power must be turned off and then turned back on.
625: The 625 interlace/50 Hz TV system is selected.
525: The 525 interlace/59.94 Hz TV system is selected.
For playback, make sure that the switch is set to the position that corresponds to the TV system, 625i or 525i, which was used when the tape was recorded.

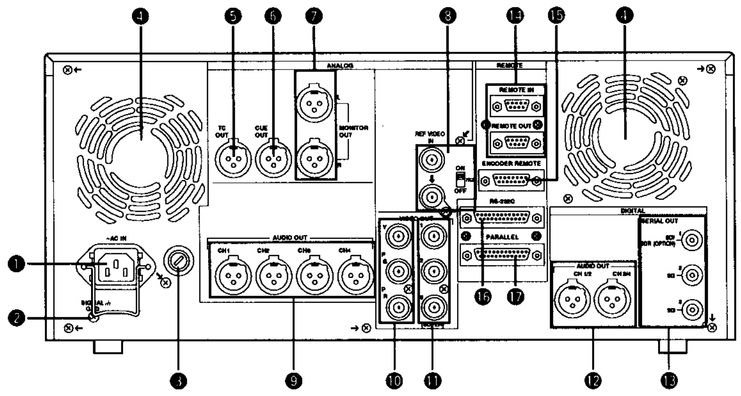
<Front panel bottom>

㊻ MENU button
When this button is pressed, the setup menu appears on the TV monitor (but only when the VIDEO OUT 3 connector is used), and the setup menu number appears on the unit's display. When it is pressed again, the setup menu setting is exited and the original operation is restored.

㊼ SET button
When this button is pressed, the data which has been set on the setup menu is entered. After the data has been entered, the setup menu setting is exited and the original operation is restored.

㊽ DIAG button
When this button is pressed, the VTR information is displayed. When it is pressed again, the original display is restored.
The VTR information consists of the HOUR METER information and WARNING information. The search button is pressed to switch between the displays of the two types of information.
Displayed on the HOURS METER screen are the deck's serial number, power-on time, drum rotation time, tape travel time, number of times the cassette has been loaded, and the number of times the power has been switched on and off.
Displayed on the WARNING screen is the nature of the warnings issued.

Connector panel


④
⑤
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④
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②
③
⑨
⑩
⑪
⑯
⑰
⑫
⑬
ANALOG
TC OUT
CUE OUT
MONITOR OUT
REF VIDEO IN
ON
OFF
REMOTE
REMOTE IN
REMOTE OUT
ENCODER REMOTE
RS-232C
PARALLEL
~AC IN
AUDIO OUT
CH1
CH2
CH3
CH4
DIGITAL
SERIAL OUT
AUDIO OUT
CH1/2
CH3/4

Parts and Their Functions

<Connector panel>

① AC IN socket
This is connected to the power outlet using the accessory power cord.

② SIGNAL GND terminal
This is connected to the signal ground terminal on the connected component for noise reduction purposes. It is not a safety ground.

③ Fuse holder
This contains a fuse.

④ Fan motor
This motor drives the fan that cools down the unit.
The ● lamp lights when trouble in some form or other has caused the fan motor to shut down. If operation is continued while this warning condition persists, the temperature inside the deck will rise, and once it has exceeded the safe temperature level, all the unit's operations will be shut down.

⑤ TIME CODE OUT connector
The playback time code signals are output from this connector.

⑥ CUE OUT connector
The analogue signals recorded on the CUE track are output from this connector.

⑦ MONITOR OUT connectors
The PCM audio signals of CH1, CH2, CH3 and CH4 or the playback signals from the CUE track are output from this connector.

⑧ REF VIDEO IN connectors and 75Ω termination switch
These are the input connectors for the reference video signal.
Supply a composite video signal such as a black burst signal complying with the broadcast standards (see *1). Set the switch to ON for a 75Ω termination.
*1 625: CCIR624
525: RS-170A

⑨ ANALOG AUDIO OUT connectors
The analogue audio signals are output from these connectors.

⑩ ANALOG COMPONENT VIDEO OUT connectors
The analogue component video signals are output from these connectors.

⑪ ANALOG COMPOSITE VIDEO OUT connectors
The analogue composite video signals are output from these connectors. Video signals with superimposed characters can be output from the VIDEO OUT 3 connector. Use setup menu item No. 007 (SUPER) to select ON or OFF as the superimposed character setting.

⑫ DIGITAL AUDIO OUT connectors
Digital audio signals complying with the AES/EBU standards are output from these connectors.

⑬ SERIAL DIGITAL COMPONENT AUDIO/VIDEO OUT connectors
Digital component audio and video signals complying with the EBU Tech. 3267-E standards are output from these connectors.

Parts and Their Functions

<Connector panel>

⑭ Remote control connectors
The unit can be operated from an external source when it is connected with another player for deck-to-deck editing or with an external controller. There are two remote control connectors, one for input signals (IN) and the other for output signals (OUT).

IN: To be connected with an external controller.
To be connected for deck-to-deck operations.
OUT: To be connected for parallel run operations.
To be used for loop-through applications.

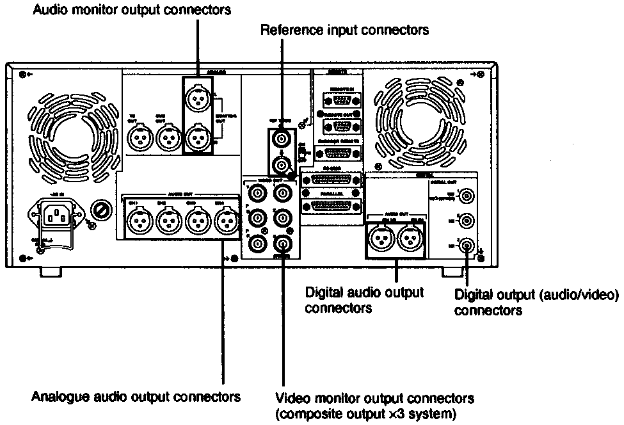
⑮ ENCODER REMOTE connector
This is connected to an external encoder remote controller when the video output signal settings are to be adjusted from an external source.

⑯ RS-232C connector

⑰ PARALLEL REMOTE connector
This is used when the unit is to be operated from an external source.

Connections using one unit

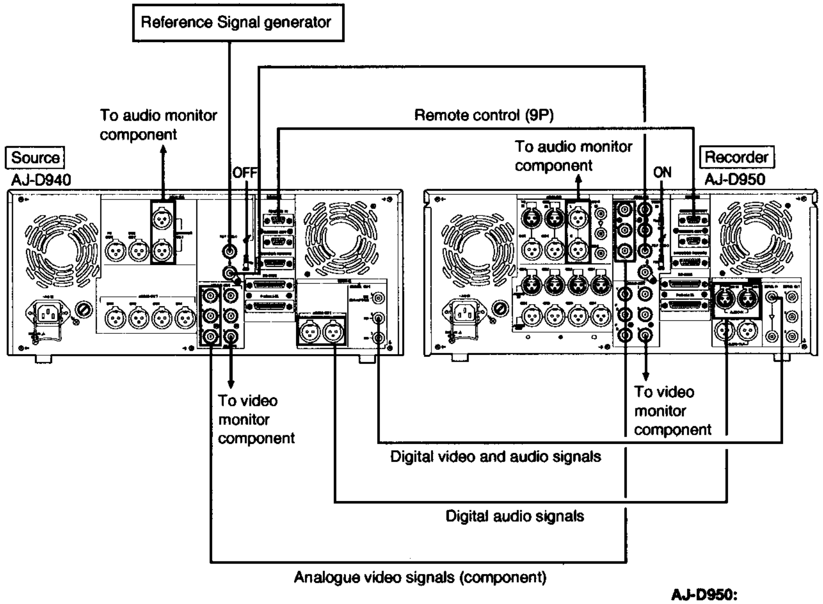
Set the CONTROL switch on the front panel to LOCAL.


Audio monitor output connectors
Reference input connectors
Digital audio output connectors
Digital output (audio/video) connectors
Analogue audio output connectors
Video monitor output connectors (composite output ×3 system)

Example of connections when the unit is used as the source machine for editing (deck-to-deck)

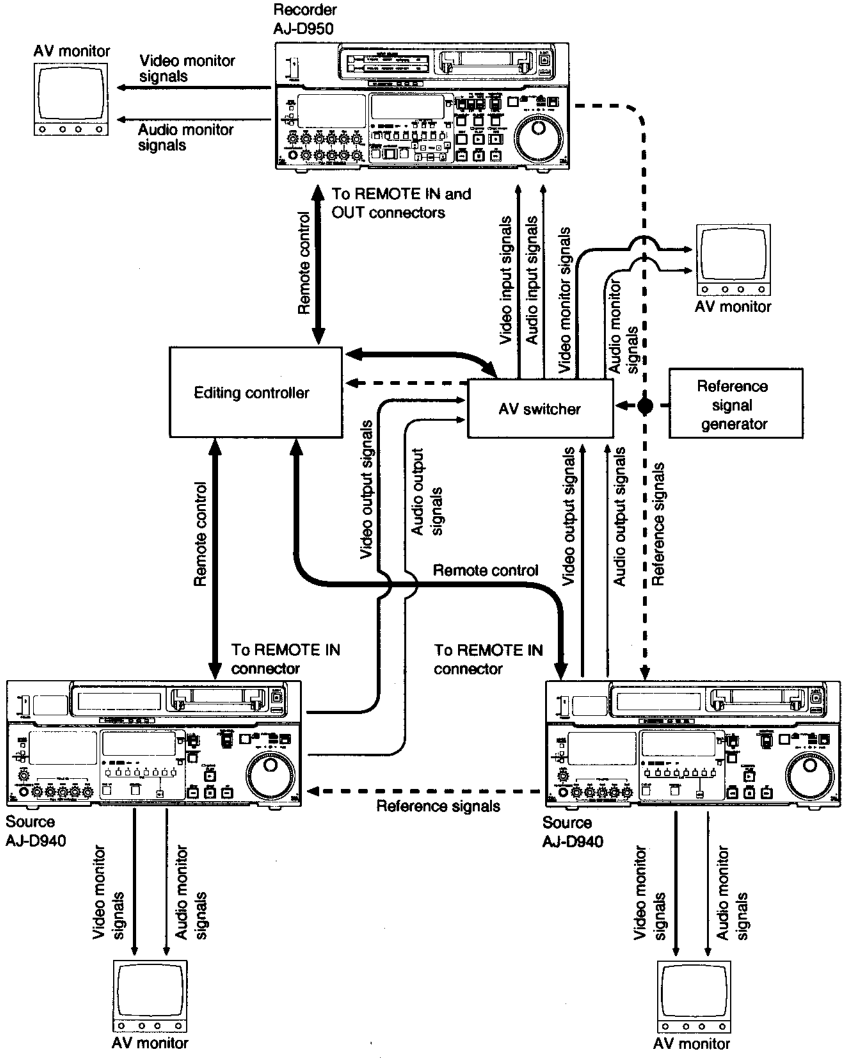
Source unit: Set the CONTROL switch on the front panel to REMOTE.

Recorder unit: Set the CONTROL switch on the front panel to LOCAL.


Reference Signal generator
To audio monitor component
Remote control (9P)
To audio monitor component
Source
AJ-D940
OFF
ON
Recorder
AJ-D950
To video monitor component
To video monitor component
Digital video and audio signals
Digital audio signals
Analogue video signals (component)

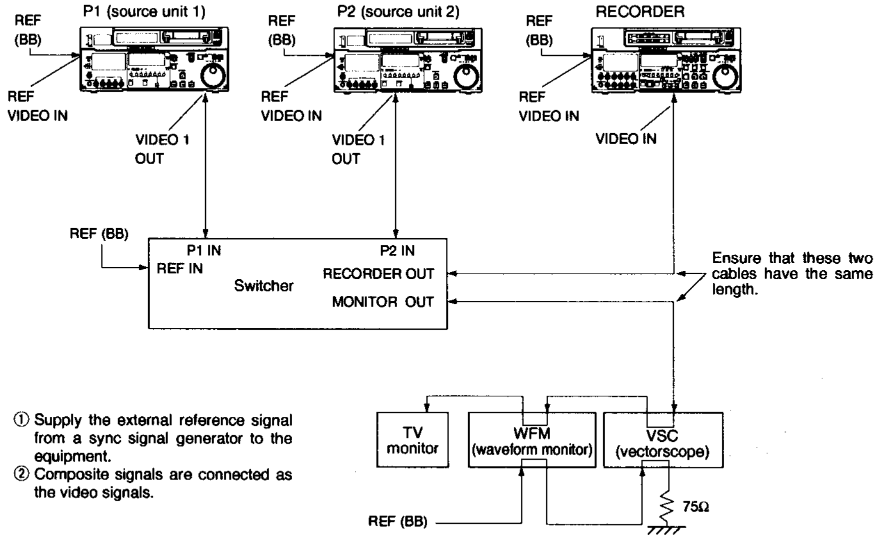
AJ-D950:
The analogue video input board (optional accessory) must be installed for use.

Example of connections with an editing controller


Recorder
AJ-D950
AV monitor
Video monitor signals
Audio monitor signals
To REMOTE IN and OUT connectors
Remote control
Video input signals
Audio input signals
Video monitor signals
Audio monitor signals
AV monitor
Editing controller
AV switcher
Reference signal generator
Video output signals
Audio output signals
Remote control
Video output signals
Audio output signals
Reference signals
Remote control
To REMOTE IN connector
To REMOTE IN connector
Reference signals
Source
AJ-D940
Source
AJ-D940
Video monitor signals
Audio monitor signals
Video monitor signals
Audio monitor signals
AV monitor
AV monitor

<Note>
If an editing controller made by CMX is to be used, steps must be taken at the editing controller side to support it.

Connections for adjusting the video output signals (encoder output)


REF
(BB)
P1 (source unit 1)
REF
VIDEO IN
VIDEO 1
OUT
REF
(BB)
P2 (source unit 2)
REF
VIDEO IN
VIDEO 1
OUT
REF
(BB)
RECORDER
REF
VIDEO IN
VIDEO IN
REF (BB)
P1 IN
REF IN
Switcher
P2 IN
RECORDER OUT
MONITOR OUT
TV
monitor
WFM
(waveform monitor)
VSC
(vectorscope)
REF (BB)
75Ω

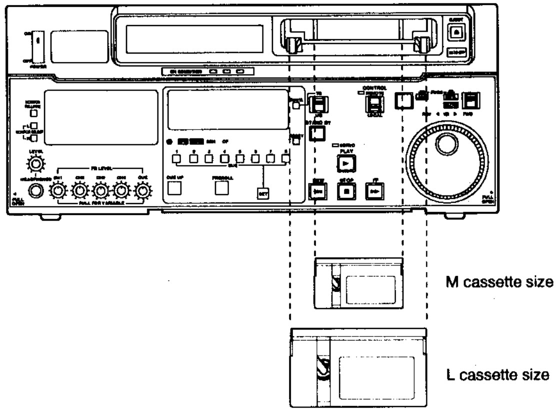
Ensure that these two cables have the same length.

① Supply the external reference signal from a sync signal generator to the equipment.
② Composite signals are connected as the video signals.

Tapes

Type		Description
Consumer cassette (S size cassette)		These tapes are exclusively used with general consumer camera/recorders. They can be played back on the unit if a cassette adapter AJ-CS750P (available as an optional accessory) is used. However, bear in mind that long-playing cassette tapes (80 minutes in the standard mode; 120 minutes in the LP mode) cannot be used. It is recommended that Panasonic's DV tapes for general consumer applications be used. Bear in mind that inserting one of these cassette tapes without first installing the cassette adapter will cause malfunctioning.
M size cassette		Tapes with a maximum playback time of 33 minutes. (AJ-P66MP)
L cassette	**DVCPRO (50 Mbps)**	Tapes with a maximum playback time of 92 minutes. (AJ-5P92LP)
	For consumer use	Standard playback cassette tapes for consumer use. For playback, select DV as the setup menu item No. 014 (FORMAT SEL) setting. Use of Panasonic's consumer-use DV tapes is recommended.

Align the cassette with the centre of the insertion slot, and gently push it inside. The cassette tape is automatically loaded.



<Note>
For AJ-5P92LP cassette tapes recorded using the DVCPRO (25 Mbps) mode, use a VTR supporting DVCPRO (25 Mbps) 184 minute tapes.

<Precautions when playing back general consumer DV tapes>
- General consumer tapes recorded in the LP mode cannot be played back.
- When material recorded on a general consumer tape is to be edited, either use a DVCPRO50 (50 Mbps) or DVCPRO (25 Mbps) tape or record the material on another VTR used for broadcast applications.
- The maximum speed at which general consumer tapes can be advanced is 32 times the normal tape speed.
- The maximum still mode time for general consumer tapes is set to 10 seconds.
- Cueing up a general consumer tape at the same position should be kept to the minimum in order to protect the tape from damage.
- The maximum time for STILL TIMER when a general consumer tape is used is set to 10 seconds, and the total time during which such a tape may be left standing in the STILL mode is set to 1 minute.

Switching on the Power/Inserting the Cassette

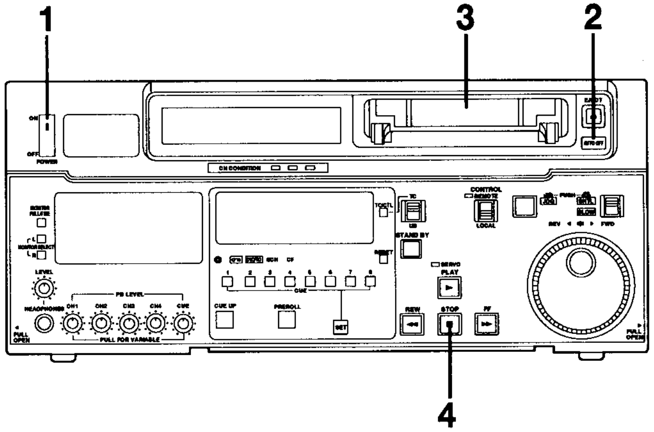
Before starting to operate the unit, check that the equipment has been connected properly.

1 Turn on the power.

2 Check that the AUTO OFF lamp is off.
In the event of condensation or other trouble, the AUTO OFF lamp lights, and all of the unit's operations are disabled.

3 Insert the cassette tape.
Insert the tape into the prescribe position without forcing it in any way.

4 Check that the STOP lamp is lit.
When the tape is inserted, the cylinder starts rotating automatically, the tape is loaded, and the STOP mode is established.
The EJECT lamp now goes off.



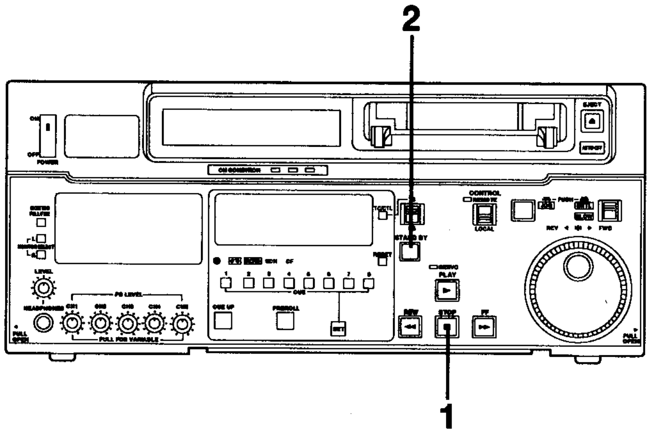
STOP/STANDBY mode

1. The stop mode is established when the STOP button is pressed.
   The STOP lamp lights, and the tape stops travelling.
   - In order to protect the tape, the standby OFF mode is established after the time set in setup menu item No. 400 (STILL TIMER) has elapsed.
     When the STOP, REW, FF or PLAY button is pressed, the corresponding mode is established.

2. When the STANDBY button is pressed, the standby ON or OFF mode is established.
   The standby ON mode is established while the button's lamp is lit.
   When the button is pressed in the stop mode, the standby OFF mode is established, the tape is set to the half-loading status, and the button's lamp goes off.
   When the button is pressed in the standby OFF mode, the standby ON mode is established.

<Precautions for the STILL TIMER setting>

- Remember that at times when the same material is repeatedly used such as when programmes are aired, the cumulative standby time in the same position will be increased.
- In order to protect the tape, make the standby time at the same tape locations as short as possible: for instance, select a maximum of 30 seconds or so as the setup menu item No. 400 (STILL TIMER) setting.



Playback

1. Insert the cassette tape and set the unit to the STOP mode.

2. Press the PLAY button. Normal playback now commences.

3. Adjust the audio playback levels. Pull out the audio level controls, and turn them clockwise or counterclockwise to adjust the levels. Normally, they are kept at their pushed-in positions (unity level).

4. To end playback, press the STOP button.
   The unit is now set to the stop mode.

<Note>

Check that the SERVO lamp remains lit during playback. The playback pictures will be disturbed if the lamp is flashing or off.

Jog/Shuttle

Jog mode

1. Push the search dial to set it to its "in" position. Check that the JOG lamp is lit.
2. Rotate the search dial.
   The clickstop positions of the dial are cleared, and the tape is played back at a speed (−1× to +1×) corresponding to the speed at which the dial is rotated. When the rotation of the dial is stopped, a still picture appears. The playback picture is free from noise.
3. To transfer operation from the jog mode to another mode, press the button which corresponds to the mode which is to be transferred to.

Shuttle mode

1. Push the search dial to release it from its "in" position.
   The SHTL lamp now lights, and the shuttle mode is established.
   - Immediately after the power is turned on, rotate the search dial and set it to its centre position.
2. Set the SHTL/SLOW switch to the SHTL or SLOW position.
3. Rotate the search dial.
   When the SHTL/SLOW switch is set to the SHTL position, the speed of the playback picture is varied in the 0 to ±32× range depending on the dial's position. (The speed can be switched to ±8.4×, ±16× or ±32× using setup menu item No. 101 (SHTL MAX).)
   The dial is set to the clickstop at the centre: at this position a still picture appears on the screen.
   When the SHTL/SLOW switch is set to the SLOW position, the speed of the playback picture is varied in the −4.1× to +4.1× range depending on the dial's position. (The maximum speed can be selected using setup menu item No. 320 (VAR FWD MAX) and No. 321 (VAR REV MAX). However, noise will appear at any speed outside the −1× to +1× range for the DVCPRO50 (50 Mbps) format, the −2× to +2× range for the DVCPRO (25 Mbps) format and the −1× to +1× range for the DV format.) The dial is set to the clickstop at the centre: at this position a still picture appears on the screen.
   The playback picture is free from noise.
4. To transfer operation from the shuttle mode to another mode, press the STOP button or another button.

<Note>
The unit is set at the factory in such a way that operation will be transferred to the shuttle or jog mode when the search dial is rotated. If it is inconvenient to transfer directly to the variable speed mode, operation transfer can be set up to go through the search button.
Set setup menu item No. 100 (SEARCH ENA) to KEY.

MULTI CUE Function

Entering CUE points

■ Automatic entry

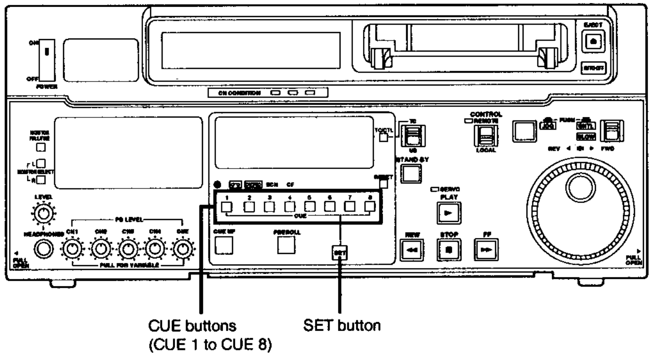
Using the search dial or in the PLAY mode, press the SET button at the place where the tape is to be cued. The CUE button in which the CUE point was entered now lights.
Each time the SET button is pressed at the next place where the tape is to be cued, the CUE point will be entered into the CUE button, in which a CUE point has not yet been entered, in sequence starting with the button having the lowest number.

<Note>
When CUE points are entered in all 8 buttons, no further points will be entered even when the SET button is pressed. In this case, either overwrite an existing entry using the procedure for entry into a particular CUE button or reset the CUE point entry and then enter another CUE point.

■ Entry into a particular CUE button

There are two procedures for entering a CUE point into a particular CUE button.

- When a CUE point is to be entered into a CUE button in which no CUE point has been entered, press one of the CUE buttons (CUE 1 to CUE 8) directly at the place where the tape is to be cued. The lamp of the CUE button which was pressed now lights, indicating that the CUE point has been entered for that button.
- When a CUE point is to be entered into a CUE button in which a CUE point has already been entered, press the CUE button and SET button together at the place where the tape is to be used. In this case, the previous CUE point in the CUE button will be overwritten and a new CUE point will be entered.



Checking CUE points

Press one of the CUE buttons in which a CUE point has been entered to check the CUE point. The value of the entered CUE point appears on the display and the CUE button which was pressed now flashes. To release the flashing of the CUE button, either press the flashing CUE button or press another CUE button in which a CUE point has been entered. In this case, the flashing moves to the CUE button which was pressed.

■ Cueing up the tape to the CUE point

Press the CUE UP button while the CUE button is flashing. When this button is pressed, the tape is prerolled to the CUE point, and a still picture appears on the screen.

- The preroll time can be set using setup menu item No. 016 (CU-ROLL TIME).
- The mode to be established upon completion of the prerolling can be set to the STOP or STILL by setting setup menu item No. 315 (AFTER CUE-UP).

<Note>

If the button is pressed when no CUE point has been selected, the tape will be prerolled from the point where the button was pressed, and a still picture will appear on the screen.

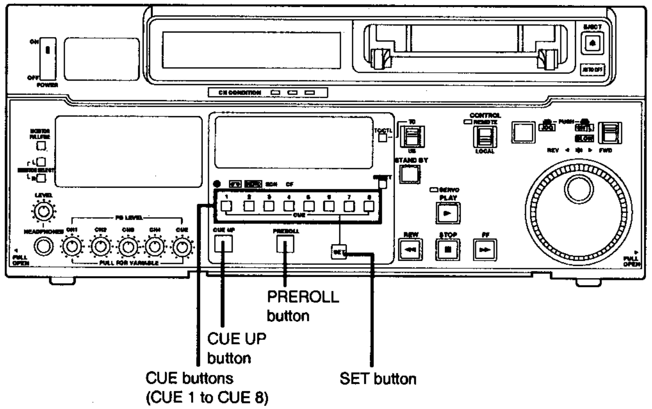
■ Prerolling the tape to the CUE point

Press the PREROLL button while the CUE button is flashing. When this button is pressed, the tape is prerolled to the CUE point, and a still picture appears on the screen.

- The preroll time can be set using setup menu item No. 000 (P-ROLL TIME).
- The mode to be established upon completion of the prerolling can be set to the STOP or STILL by setting setup menu item No. 315 (AFTER CUE-UP).

<Note>

If the button is pressed when no CUE point has been selected, the tape will be prerolled from the point where the button was pressed, and a still picture will appear on the screen.



Clearing CUE points

■ Clearing a particular CUE point

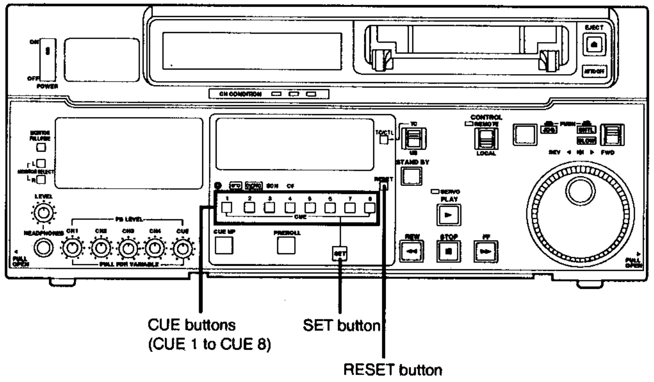
Press the RESET button while holding down the CUE button in which the point to be cleared has been entered. The entered CUE point will be reset, and the lamp of the CUE button concerned will go off at the same time.

■ Clearing all the CUE points together

Press the RESET button while holding down the SET button. All the entered CUE points will be reset and all the lamps of the CUE buttons will go off at the same time.

<Notes>

- The following applies when the CTL mode has been set.
  When the RESET button is pressed while the SET button is held down, all the entered CUE points will be reset but the CTL value will not be reset.
  Conversely, when the SET button is pressed while the RESET button is held down, all the entered CUE points will be reset and the CTL value will also be reset.
- The entered CUE points are not reset even when the tape is ejected. In the CTL mode, only the CTL value is reset.



Video Output Signal (Encoder Output) Adjustments

In order to ensure an accuracy which is free from errors during editing when proceeding with AB roll editing (editing using two source units) using editors, it is necessary to adjust the video output signal (ENCODER OUT) after the system connections have been performed. (These adjustments must be performed again each time a connecting cable has been replaced or the connections are changed.)
The adjustment procedure for this unit is described below.

1 Check the connections. (See page 21)

2 Set the ㊴ REMOTE/LOCAL switch at the bottom of the front panel to the adjustment position (LOCAL).
REMOTE: The video output signals are adjusted using the external encoder remote controller.
LOCAL: The video output signals are adjusted using the controls on this unit.

3 Perform the adjustments separately for each source unit.

3-1 When the preset values are to be used

Set the PRESET/MANUAL switches for VIDEO LEVEL, CHROMA LEVEL, BLACK LEVEL and CHROMA PHASE to the PRESET position.

3-2 When adjusting the video output signals without using the PRESET values

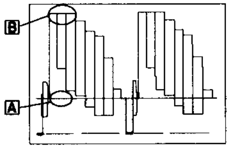
1 Play back a cassette tape on which standard colour bars have been recorded.
2 Adjust the controls in such a way that the following will appear on the waveform monitor (WFM) and vectorscope (VSC).

A Black level:
Adjust in such a way as to eliminate any deviation.

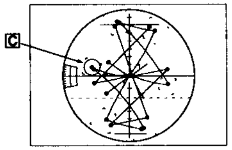
B Video level:
Adjust to 700 mV.

C Chroma level and chroma phase:
Adjust the two controls and place the vector waveform traces within the square grid mark.

■ Waveform on WFM



■ Waveform on VSC



4 Adjust the connected source units in the same way.

Setup (Default Settings)

The unit's main settings are performed while making selections using a menu system. The setting menus will appear on a TV screen when the VIDEO OUT 3 connector on the connector panel has been connected to a TV monitor.

Changing the settings

1 Press the MENU button.
The setup menu screen appears on the TV monitor, and the setup menu item number appears on the unit's counter display.
(When setup has already been performed, the screen showing the changes made last is displayed.)

2 Rotate the search dial and select the item to be set.
The cursor (⋆) moves on the menu screen, and the item number on the display flashes.
- When the dial is rotated clockwise, the flashing item number is incremented (001 → 002 → 003 → 004 → and so on); when it is rotated counterclockwise, it is decremented.
- When the FF or REW button is pressed while the PLAY button is held down, the next or previous item is selected.
- Use the search dial in the JOG mode whenever possible.

3 Rotate the search dial while holding down the search button at the position where the change is to be made. The menu screen and setting on the display flash.
When the dial is rotated clockwise, the setting is incremented; when it is rotated counterclockwise, it is decremented.

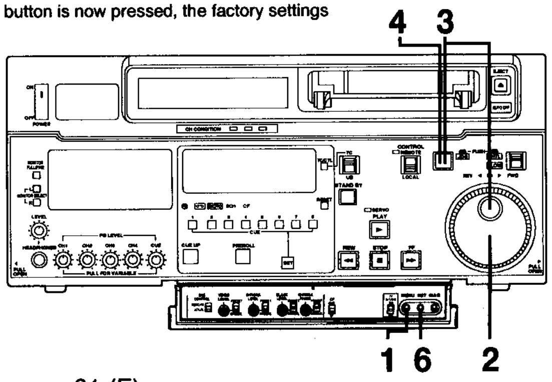
4 Release the search button when the settings are completed. The item number now flashes.
- When the search dial is in the SHTL mode, the item will move unless the dial is held at the STILL position.

5 Repeat steps 2 to 4 if another item is to be changed.

6 Press the SET button. The changes made are now stored in the memory. To return the settings to what was set before the changes were made, press the MENU button.
- To return the setup settings to the factory (default) settings, press the RESET button while the menu is displayed. The following message will appear.

```
SETUP-MENU INIT SET
YES<PLAY>/NO<STOP>
```

When the PLAY button is now pressed, the factory settings will be restored.



<Notes>
- When the RESET button is pressed to restore the factory settings, the change will be made for the user file in current use only. The other user files will not be affected.
- The changes made to the SYSTEM menu settings can be stored in the memory also by pressing the MENU button.

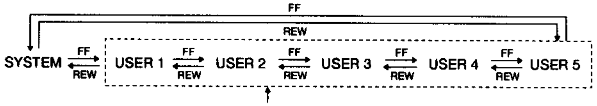
Setup (Setting) Menus

This unit offers five user files each of which can hold different menu settings.
One of these files can be selected for use as the situation demands.

Changing the file

1. Press the MENU button.

2. When the FF button is pressed while the STANDBY button is held down, the next user file is selected in place of the current user file.
   Conversely, when the REW button is pressed while the STANDBY button is held down, the previous user file is selected in place of the current user file.



User files
Each user file has the following items.
- BASIC
- OPERATION
- INTERFACE
- EDIT
- TAPE PROTECT
- TIME CODE
- VIDEO
- AUDIO
- V BLANK
- MENU

3. When the user file to be used has been selected in step 2, press the SET button. The user file is changed and stored in the memory.

<Note>
The SYSTEM menu items are not contained in user files 1 to 5. Therefore, to set the SYSTEM menu items, select the user file and switch to the SYSTEM file.

Setup Menus

The lock mode can be set to protect the settings in the system file and user files (USER2 to USER5). Once the lock mode has been set, it is no longer possible to change the settings. The setting and release of the lock mode can be performed using setup menu item No. 30 (MENU LOCK) for the system file and using setup menu item No. A03 (MENU LOCK) for the user files.

Setting and releasing the lock mode

1. Press the MENU button.

2. Press the FF or REW button while the STANDBY button is held down to select the file for which the lock mode is to be set or released.

3. Rotate the search dial, and move the cursor (*) on the menu screen to No. 30 (MENU LOCK) for the system file or to No. A03 (MENU LOCK) for the user files.

4. Rotate the search dial while the search button is held down, and select whether to set or release lock mode.
   Set lock: Set the setting to 0001 (ON).
   Release lock: Set the setting to 0000 (OFF).

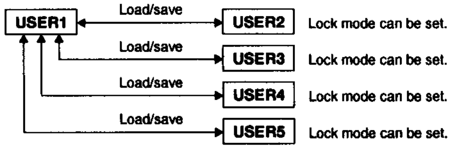
   When the lock is set, "LOCKED" appears at the top of the menu screen. In addition, the counter display stops flashing and lights up.

```
SETUP-MENU  LOCKED
<USER2>      No.000 - 0005
*000 P-ROLL TIME        5s
 001 LOCAL ENA       ST&EJ
 002 TAPE TIMER       ±12h
 003 REMAIN SEL        OFF
 004 SETUP NUMBER      OFF
 007 SUPER              ON
 008 DISPLAY SEL     T&STA
 009 CHARA H-POS         5
 010 CHARA V-POS        23
```

5. Press the SET button. The setting is now stored in the memory.

<Notes>
- The lock mode cannot be set for the USER1 file.
- Once a file has been set to the lock mode, it cannot be reset to the factory settings even when the RESET button is pressed.

The contents of the USER2 to USER5 files can be copied (loaded) to the USER1 file. Alternatively, the contents of the USER1 file can be copied (saved) to the USER2 to USER5 files.



Loading a user file

1. Press the MENU button.
2. Press the FF or REW button while the STANDBY button is held down and select USER1.
3. Rotate the search dial, and move the cursor (*) on the menu screen to No. A00 (LOAD).

```
SETUP-MENU  MENU
<USER1>     NO.A00  - 0000
 804 BLANK LINE     BLANK
*A00 LOAD           USER2
 A01 SAVE           USER2
 A02 P.ON LOAD        OFF
 END
```

4. Rotate the search dial while the search button is held down, and select the user file which is to be loaded in USER1.
5. Press the SET button. The following messages now appear on the menu screen and counter display.

Menu screen

```
SETUP-MENU LOAD

  USER2 → USER1 OK?
   YES<PLAY>/NO<STOP>
```

Counter display

```
TCR  00:00:00:00
SETUP LOAD U-2 → U-1
```

The number of the user file selected in step 4 is displayed in the shaded area.

6. Press the PLAY button. The settings in the user file selected in step 4 are loaded, and the USER1 menu display appears. If the STOP button is pressed instead, the USER1 menu display appears with its settings remaining unchanged.
7. Rotate the search dial, and move the cursor (*) on the menu screen to any item except No. A00 (LOAD) or No. A01 (SAVE).
8. Press the SET button. The USER1 settings are now stored in the memory. If they are not going to be stored in the memory, press the MENU button instead of the SET button.

Saving a user file

1. Press the MENU button.
2. Press the FF or REW button while the STANDBY button is held down and select USER1.
3. Rotate the search dial, and move the cursor (*) on the menu screen to No. A01 (SAVE).

```
SETUP-MENU  MENU
<USER1>     NO.A00  - 0000
 804 BLANK LINE     BLANK
 A00 LOAD           USER2
*A01 SAVE           USER2
 A02 P.ON LOAD        OFF
 END
```

4. Rotate the search dial while the search button is held down, and select the user file in which the USER1 settings are to be saved. User files which have been set to the lock mode will not be displayed at this time. If all the user files are set to the lock mode, the "LOCKED" display appears, and the save operation cannot be performed.
5. Press the SET button. The following messages now appear on the menu screen and counter display.

Menu screen

```
SETUP-MENU SAVE

  USER1 → USER2 OK?
   YES<PLAY>/NO<STOP>
```

Counter display

```
TCR  00:00:00:00
SETUP SAVE U-1 → U-2
```

The number of the user file selected in step 4 is displayed in the shaded area.

6. Press the PLAY button. The USER1 settings are saved in the user file selected in step 4. If the STOP button is pressed instead, the USER1 menu display appears with its settings remaining unchanged.
7. Rotate the search dial, and move the cursor (*) on the menu screen to any item except No. A00 (LOAD) or No. A01 (SAVE).
8. Press the SET button. The USER1 settings are now stored in the memory.
   If they are not going to be stored in the memory, press the MENU button instead of the SET button.

Automatically calling a user file when the power is turned on

If the user file to be loaded is set in advance using setup menu item No. A02 (P.ON LOAD), the file will be loaded into USER1 automatically when the power is turned on.

SYSTEM menu

<SYSTEM>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
00	WFM SEL	0000 0001 0002 0003 0004 0005 0006 0007 0008 0009 0010 0011 0012 0013 0014 0015	CTL TC VIDEO SYNC RF_L1 RF_L2 RF_R1 RF_R2 RF_DL RF_DR ENV_L1 ENV_L2 ENV_R1 ENV_R2 ENV_DL ENV_DR	This enables various signals to be output from the VIDEO OUT2 output connector. 0: The CTL signal is output. 1: The time code signal is output. 2: The video output signal is output. 3: The sync signal is output. 4: The PB L13ch RF signal is output. 5: The PB L24ch RF signal is output. 6: The PB R13ch RF signal is output. 7: The PB R24ch RF signal is output. 8: The DV L12ch RF signal is output. 9: The DV R12ch RF signal is output. 10: The PB L13ch ENV signal is output. 11: The PB L24ch ENV signal is output. 12: The PB R13ch ENV signal is output. 13: The PB R24ch ENV signal is output. 14: The DV L12ch ENV signal is output. 15: The DV R12ch ENV signal is output.
11	SYS SC	0000 ⋮ 0127 ⋮ 0255	−127 ⋮ 0 ⋮ 128	System phase adjustment: total variable range = more than ±180° −: Advanced +: Delayed <Note> The setting will remain unchanged even if an operation is performed to restore the factory setting.
12	SYS H	0000 ⋮ 0108 ⋮ 0216	−108 ⋮ 0 ⋮ 108	System phase adjustment: 74 nsec steps −: Advanced +: Delayed <Note> The setting will remain unchanged even if an operation is performed to restore the factory setting.
13	VIDEO PHASE	0000 ⋮ 0032 ⋮ 0064	−32 ⋮ 0 ⋮ 32	Video phase adjustment: 148 nsec steps −: Advanced +: Delayed
14	SCH COARSE	0000 0001 0002 0003	0 90 180 270	SCH phase adjustment: 90° increments −: Advanced +: Delayed (The SC phase changes; the H phase does not change.)
15	SCH FINE	0000 ⋮ 0032 ⋮ 0064	−32 ⋮ 0 ⋮ 32	CH phase adjustment: total variable range = more than ±45° (The SC phase changes; the H phase does not change.)
16	AV PHASE	0000 ⋮ 0100 ⋮ 0200	−100 ⋮ 0 ⋮ 100	This adjusts the phase of the audio output in relation to the video output phase: 20.8 μsec steps. −: The audio output phase advances ahead of the video output phase. +: The audio output phase lags behind the video output phase.

"__" denotes the factory setting.

SYSTEM menu

<SYSTEM> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
17	SYS H RANGE	0000 0001	FULL FINE	This selects the variable range for SYSTEM H when the ENCODER REMOTE connector is connected. 0: ±8 μsec 1: −2 to +2.7 μsec <Notes> • The setting will remain unchanged even if an operation is performed to restore the factory setting. • The FULL operation results regardless of this item's setting if SYSTEM H is varied using this unit instead of using the encoder remote controller.
18	SYS H OFFSET	0000 0001 0002 0003 0004 0005 0006	−3 −2 −1 0 1 2 3	System phase adjustment 0: −13.4 μsec 1: −8.96 μsec 2: −4.52 μsec 3: 0 sec 4: +4.52 μsec 5: +8.96 μsec 6: +13.4 μsec <Note> The setting will remain unchanged even if an operation is performed to restore the factory setting.
19	SYS SC/H	0000 0001	REMOTE LOCAL	This sets whether the system phase is to be adjusted by the unit or from the external encoder remote controller. 0: The system phase is adjusted from the external encoder remote controller. 1: The system phase is adjusted by the unit. <Note> This setting does not take effect when the ENCODER CONTROL switch at the bottom of the front panel is set to LOCAL.
30	MENU LOCK	0000 0001	OFF ON	This selects whether the lock mode is to be set or released for the system file. 0: Lock is released (changes can be made). 1: Lock is set (no changes can be made). <Note> Setup menu item No. 00 (WFM SEL) can be changed at any time regardless of the setting of this menu item.

"__" denotes the factory setting.

Video output signal adjustments

The video output signal adjustments are made using the ENCODER CONTROL switch at the bottom of the front panel and the SYSTEM menu item No. 19 (SYS SC/H) setting. A control matrix of the adjustments is shown below.

Setting		Adjustment item		
ENCODER CONTROL switch	SYSTEM menu item 19: SYS SC/H	SYSTEM menu item 11: SYS SC 12: SYS H	SYSTEM menu item 17: SYS H RANGE	VIDEO LEVEL CHROMA LEVEL BLACK LEVEL CHROMA PHASE
LOCAL	LOCAL	Unit	Always FULL regardless of setting	Unit
	REMOTE			
REMOTE	LOCAL	Unit		External encoder remote controller
	REMOTE	External encoder remote controller	FULL/FINE	

USER menus

<BASIC>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
000	P-ROLL TIME	0000 ⋮ 0005 ⋮ 0015	0S ⋮ 5S ⋮ 15S	This sets the time for the preroll which is initiated by the PREROLL button. It can be set from 0 to 15 seconds in 1-second increments.
001	LOCAL ENA	0000 0001 0002	DIS ST&EJ ENA	This selects the buttons which can be operated on the front panel when the REMOTE/LOCAL switch has been set to REMOTE. 0: No buttons can be operated. 1: Only the STOP and EJECT buttons can be operated. 2: All the buttons can be operated.
002	TAPE TIMER	0000 0001	±12h 24h	This selects the 12- or 24-hour display for the CTL counter. 0: 12-hour display 1: 24-hour display
003	REMAIN SEL	0000 0001	OFF ON	This selects whether to indicate the remaining tape time (REMAIN) on the front panel display and the superimposed display at the VIDEO OUT 3/SERIAL OUT 3 connectors. 0: Remaining tape time is not displayed. 1: Remaining tape time is displayed. **<Notes>** • The remaining tape time is indicated at the far right of the second digit on the front panel display and superimposed display. • Even when 1 (ON) has been selected, the remaining tape time is not displayed while it is being calculated after the cassette has been ejected or inserted. • When TIME has been selected as the setup menu item No. 008 (DISPLAY SEL) setting, the time is not indicated on the superimposed display. • No display appears if the freeze mark (F) is indicated by the setup menu item No. 111 (FRZ MODE SEL) setting. • No display appears if the tape start or end is sensed and BOT or EOT is displayed.
004	SETUP NUMBER	0000 0001	OFF ON	This selects whether the SETUP MENU No. is to be displayed on the front panel. 0: The SETUP MENU No. is not displayed. 1: The SETUP MENU No. is displayed.
007	SUPER	0000 0001	OFF ON	This selects whether the time code and other superimposed displays are to be shown at the VIDEO OUT 3/SERIAL OUT 3 connector. 0: Superimposed displays are not shown. 1: Superimposed displays are shown.

"__" denotes the factory setting.

USER menus

<BASIC> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
008	DISPLAY SEL	0000 0001 0002 0003 0004 0005 0006	TIME T&STA T&S&M T&RT T&YMD T&MDY T&DMY	This selects what information is to be provided by the time code and other superimposed displays at the VIDEO OUT 3/SERIAL OUT 3 connector. 0: Time only 1: Time and operating mode 2: Time, operating mode and mode 3: Time and REC TIME 4: Time and REC DATE (year/month/day) 5: Time and REC DATE (month/day/year) 6: Time and REC DATE (day/month/year) **<Notes>** 1. Displayed as the mode is DVCPRO_50 for the DVCPRO50 (50 Mbps) format, DVCPRO for the DVCPRO (25 Mbps) format or DV for the DV format. 2. An error message appears if a warning or error has occurred when 2 (T&S&M) has been selected as this setting. 3. REC TIME and REC DATE are displayed during DV playback only. With the DVCPRO50 (50 Mbps) or DVCPRO (25 Mbps) format, the operating mode is displayed.
009	CHARA H-POS	0000 ⋮ 0004 ⋮ 0015	0 ⋮ 4 ⋮ 15	This sets the horizontal position of the characters for the time code and other superimposed displays of the VIDEO OUT 3/SERIAL OUT 3 connector. **<Note>** When this item is set, the time code and other superimposed displays are output to VIDEO OUT 3/SERIAL OUT 3 in the DISPLAY SEL status even if SUPER OFF has been set. However, when the menu is exited, operation complies with the SUPER OFF/ON setting. Furthermore, CHARA TYPE as set in the menu is output to VIDEO OUT 3/SERIAL OUT 3 .
010	CHARA V-POS	625 mode 0000 ⋮ 0023 ⋮ 0028 525 mode 0000 ⋮ 0018 ⋮ 0022	 0 ⋮ 23 ⋮ 28 0 ⋮ 18 ⋮ 22	This sets the vertical position of the characters for the time code and other superimposed displays of the VIDEO OUT 3/SERIAL OUT 3 connector. **<Notes>** 1. When this item is set, the time code and other superimposed displays are output to VIDEO OUT 3/SERIAL OUT 3 in the DISPLAY SEL status even if SUPER OFF has been set. However, when the menu is exited, operation complies with the SUPER OFF/ON setting. 2. When the DISPLAY SEL setting causes characters to extend beyond the edges of the screen, the setting is changed in such a way that the characters are automatically displayed at a position where they are contained within the screen.

"__" denotes the factory setting.

USER menus

<BASIC> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
011	CHARA TYPE	0000 0001	WHITE W/OUT	This selects the display type for the superimposed displays of the VIDEO OUT 3/SERIAL OUT 3 connector, the setup menus, etc. 0: White characters against a black background 1: White characters with a black border
012	SYS FORMAT	0000 0001	50M 25M	This sets the playback format. 0: The DVCPRO50 (50 Mbps) format is selected. 1: The DVCPRO (25 Mbps) format is selected.
013	PB FORMAT	0000 0001	MANUAL AUTO	This sets the tape playback format. 0: The format complies with the setup menu item No. 012 (SYS FORMAT) setting. 1: The format complies with the format recorded on the tape when the DVCPRO mode has been selected as the setup menu item No. 014 (FORMAT SEL) setting. **<Note>** There is no automatic setting in the 625/525 mode.
014	FORMAT SEL	0000 0001	DVCPRO DV	This selects the format when an L size cassette is used. 0: DVCPRO (50 Mbps, 25 Mbps) mode 1: DV mode **<Notes>** Bear in mind that the following problems may arise over and above trouble with playback if a tape with a different format from the one selected is inserted. 1. The remaining tape time will not be displayed accurately. 2. The slow-down positions near the tape start and end will not be located accurately. 3. In addition, no guarantees are given for performance, etc. if a tape with a different format from the one selected is inserted.
016	CU-ROLL TIME	0000 ⋮ 0015	0s ⋮ 15s	This sets the time for the preroll which is initiated by the CUE UP button. It can be set from 0 to 15 seconds in 1-second increments.

“__” denotes the factory setting.

USER menus

<OPERATION>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
100	SEARCH ENA	0000 0001	DIAL KEY	This selects the direct search dial operation. 0: For direct search dial operations. 1: Operation is not transferred to the search mode unless the search button is pressed.
101	SHTL MAX	0000 0001 0002	×8.4 ×16 ×32	This sets the maximum speed for shuttle operations. 0: 8.4× (7.0×) normal speed 1: 16× normal speed 2: 32× normal speed **<Note>** The values for the DV format are shown in parentheses.
102	FF. REW MAX	0000 0001 0002	×16 ×32 ×50	This sets the maximum speed for FF and REW operations. 0: 16× (32×) normal speed 1: 32× (60×) normal speed 2: 50× (100×) normal speed **<Notes>** • The values for the DVCPRO (25 Mbps) format are shown in parentheses. • With the DV format, the maximum speed is set to 32× regardless of this item's settings.
103	AUDIO MUTE	0000 0001	OFF ON	This sets the status that is established until the audio signals are output when operation is transferred from the STOP or search mode to PLAY. 0: The time until the sound is output is shortened. 1: The sound is output only after the status transfer is completed. **<Note>** When this item is set to 0, the sound in the part which is output at the beginning will be imperfect. Therefore, this setting is not recommended for use with broadcasts.
104	REF ALARM	0000 0001	OFF ON	This selects whether to display a warning for the operator when the REF.VIDEO signal has not been connected. 0: A warning is not displayed. 1: A warning is displayed in the form of a flashing STOP lamp.
107	PLAY DELAY	0000 ⋮ 0015	0 ⋮ 15	This sets the play startup time in frame increments.
108	CAP.LOCK	0000 0001	4F 8F	This selects the CAPSTAN LOCK mode when the CF switch has been set to 4F or 8F. 0: 4F mode 1: 8F mode **<Note>** This setup menu item is not displayed in the 525 mode.
109	AUTO REW	0000 0001	OFF ON	This selects whether to rewind the tape automatically to the tape start when the tape end has been detected. 0: The tape stops at the tape end. 1: The tape is rewound to the tape start.

“__” denotes the factory setting.

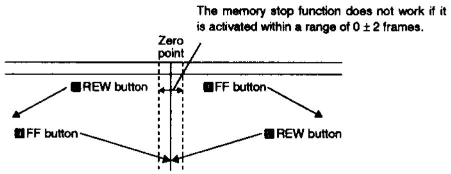
USER menus

<OPERATION> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
110	MEMORY STOP	0000 0001	OFF ON	This selects whether the VTR is to stop automatically when the counter value reaches "0" during fast forwarding or rewinding in the CTL mode. 0: The VTR does not stop. 1: The VTR stops automatically. **<Notes>** 1. The stop mode concerned is either the stop or still-picture (SHTL STILL) mode depending on the setup menu item No. 315 (AFTER CUE-UP) setting. 2. When the AUTO REW function and MEMORY function have been selected at the same time, the AUTO REW function takes precedence.
111	FRZ MODE SEL	0000 0001 0002	DIS STBOFF SOF&EJ	This selects the image which is to be output in the STANDBY OFF (HALF LOADING) mode and EJECT mode. 0: The video output is muted. 1: In the STANDBY OFF (HALF LOADING) mode only, the playback picture corresponding to the point in time when the STANDBY OFF mode was established is frozen and output. 2: In the STANDBY OFF (HALF LOADING) and EJECT mode, the playback picture corresponding to the point in time when the mode was established is frozen and output. **<Note>** The mode of field freeze is used when the playback picture is frozen.

"__" denotes the factory setting.

Description of memory stop function


The memory stop function does not work if it is activated within a range of 0 ± 2 frames.

■ When the FF button is pressed, the VTR performs the regular fast forward operation since the zero point is not located in the direction of operation.
■ When the REW button is pressed, the PREROLL lamp lights (the SHTL lamp also lights), the VTR proceeds with the preroll operation, and it automatically stops when it reaches the position where the counter reads "0".
■ When the REW button is pressed, the VTR performs the regular rewind operation since the zero point is not located in the direction of operation.
■ When the FF button is pressed, the PREROLL lamp lights (the SHTL lamp also lights), the VTR proceeds with the preroll operation, and it automatically stops when it reaches the position where the counter reads "0".

USER menus

<INTERFACE>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
200	PARA RUN	0000 0001	DIS ENA	This selects whether two or more VTRs are to be operated in synchronization. 0: The VTRs are not operated in synchronization. 1: The VTRs are operated in synchronization. **<Note>** When the VTRs are to be operated in synchronization, set item 200 to "1" for all the VTRs.
201	9P SEL	0000 0001	OFF ON	This selects whether the 9P connector is to function when the REMOTE/LOCAL switch has been set to REMOTE. 0: The 9P connector does not function. 1: The 9P connector functions.
202	ID SEL	0000 0001	OTHER DVCPRO	This selects the ID information which is returned to the controller. 0: 21 25H in the 625 mode; 20 25H in the 525 mode 1: ID inherent to DVCPRO F1 33H in the 625 mode; F0 33H in the 525 mode
203	25P SEL	0000 0001	OFF ON	This selects whether the PARALLEL (25P) connector is to function when the REMOTE/LOCAL switch has been set to REMOTE. 0: The 25P connector does not function. 1: The 25P connector functions.
204	RS232C SEL	0000 0001	OFF ON	This selects whether the RS-232C connector is to function when the REMOTE/LOCAL switch has been set to REMOTE. 0: The RS-232C connector does not function. 1: The RS-232C connector functions.
205	BAUD RATE	0000 0001 0002 0003 0004 0005	300 600 1200 2400 4800 9600	This sets the RS-232C communication speed (baud rate).
206	DATA LENGTH	0000 0001	7 8	This sets the RS-232C data length (unit: bit).
207	STOP BIT	0000 0001	1 2	This sets the RS-232C stop bit length (unit: bit).
208	PARITY	0000 0001 0002	NON ODD EVEN	This sets none, odd or even for the RS-232C parity bit. 0: Parity bit is not used. (None) 1: An odd number of bits is used for the parity. (Odd) 2: An even number of bits is used for the parity. (Even)
209	RETURN ACK	0000 0001	OFF ON	For selecting whether the ACK code is to be returned when a command is received from RS-232C. 0: ACK code is not returned. 1: ACK code is returned.
210	25P STBY CMD	0000 0001	OFF/ON ON	This selects the method used in connection with detecting the STANDBY COMMAND signal input at the PARALLEL (25P) connector. 0: Each time an active signal is detected, the mode is switched from STANDBY ON to STANDBY OFF or vice versa. 1: When an active signal is detected in the STANDBY OFF mode, operation is transferred to the STANDBY ON mode. This setting has no effect on operation while the unit is in the STANDBY ON mode.

"__" denotes the factory setting.

USER menus

<EDIT>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
315	AFTER CUE-UP	0000 0001	STOP STILL	This selects the unit's mode upon completion of the cue-up operation. 0: The unit is set to the stop mode. 1: The unit is set to the still-picture (SHTL STILL) mode.
319	VAR STEP	0000 0001	FINE COARSE	This selects the VAR speed above ±1× for remote control operations. 0: The tape is played at a speed which can be varied in fine steps. 1: The tape is played at a speed which can be varied in coarse steps. <Note> Phase synchronization from the editing controller is not possible at the "1" (COARSE) setting.
320	VAR FWD MAX	0000 0001 0002	+4.1 +1.85 +1	This sets the maximum VAR FWD speed. 0: DVCPRO50 (50 Mbps) = +4.1× normal speed DVCPRO (25 Mbps) = +4.1× normal speed DV = +3.1× normal speed 1: DVCPRO50 (50 Mbps) = +1.85× normal speed DVCPRO (25 Mbps) = +2× normal speed DV = +1.85× normal speed 2: +1× normal speed <Note> Phase synchronization from the editing controller is not possible at a setting other than "0" (+4.1).
321	VAR REV MAX	0000 0001 0002	–4.1 –1.85 –1	This sets the maximum VAR REV speed. 0: DVCPRO50 (50 Mbps) = –4.1× normal speed DVCPRO (25 Mbps) = –4.1× normal speed DV = –3.1× normal speed 1: DVCPRO50 (50 Mbps) = –1.85× normal speed DVCPRO (25 Mbps) = –2× normal speed DV = –1.85× normal speed 2: –1× normal speed <Note> Phase synchronization from the editing controller is not possible at a setting other than "0" (–4.1).
322	JOG STEP	0000 0001	FINE COARSE	This selects the JOG speed during remote control operations. 0: The tape is played at a speed which can be varied in fine steps. 1: The tape is played at a speed which can be varied in coarse steps. <Note> Phase synchronization from the editing controller, which synchronizes the phase using the JOG command, is not possible at the "1" (COARSE) setting.
323	JOG FWD MAX	0000 0001 0002	+4.1 +1.85 +1	This sets the maximum JOG FWD speed. 0: DVCPRO50 (50 Mbps) = +4.1× normal speed DVCPRO (25 Mbps) = +4.1× normal speed DV = +3.1× normal speed 1: DVCPRO50 (50 Mbps) = +1.85× normal speed DVCPRO (25 Mbps) = +2× normal speed DV = +1.85× normal speed 2: +1× normal speed <Notes> • When the dial is operated on the front panel, the maximum playback speed is +1× normal speed for the DVCPRO50 (50 Mbps) and DV formats. With the DVCPRO (25 Mbps) format, it is +2× normal speed at "0" or "1" and +1× normal speed at "2" depending on the menu setting. • Phase synchronization from the editing controller, which synchronizes the phase using the JOG command, is not possible at a setting other than "0" (+4.1).

"_" denotes the factory setting.

USER menus

<EDIT> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
324	JOG REV MAX	0000 0001 0002	–4.1 –1.85 –1	This sets the maximum JOG REV speed. 0: DVCPRO50 (50 Mbps) = –4.1× normal speed DVCPRO (25 Mbps) = –4.1× normal speed DV = –3.1× normal speed 1: DVCPRO50 (50 Mbps) = –1.85× normal speed DVCPRO (25 Mbps) = –2× normal speed DV = –1.85× normal speed 2: –1× normal speed <Notes> • When the dial is operated on the front panel, the maximum speed is –1× normal speed for the DVCPRO50 (50 Mbps) and DV formats. With the DVCPRO (25 Mbps) format, it is –2× normal speed at "0" or "1" and –1× normal speed at "2" depending on the menu setting. • Phase synchronization from the editing controller which synchronizes the phase using the JOG command is not possible when a setting other than 0 (–4.1) is used.

"_" denotes the factory setting.

USER menus

<TAPE PROTECT>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
400	STILL TIMER	0000 0001 0002 0003 0004 0005 0006 0007 0008	0.5s 5s 10s 20s 30s 40s 50s 1min 2min	This selects the time taken until the tape protection mode is established when the unit has been left standing in the stop or search still (JOG/VAR/SHTL) mode. (Unit: s = second, min = minute) **<Note>** When a DV tape for general consumer applications is used, any setting above 10 seconds will be treated as 10 seconds. However, the selection screen will show operations up to 2 minutes.
401	SRC PROTECT	0000 0001	STEP HALF	When the time selected as the setup menu item No. 400 (STILL TIMER) setting elapses while the unit is in the search STILL (JOG/VAR/SHTL) mode, the unit automatically enters a tape protection mode. This menu item is for selecting which tape protection mode is to be entered by the unit. 0: STEP FWD 1: HALF LOADING **<Note>** When STEP FWD has been selected, the STANDBY OFF (HALF LOADING) mode will automatically be established when the total time during which the unit has been left standing in the still status has reached 30 minutes (or 1 minute for a DV tape).
402	DRUM STDBY	0000 0001	OFF ON	This selects whether the head drum is to be rotated when operation is transferred to the STANDBY OFF (HALF LOADING) mode. 0: The head drum is stopped. 1: The head drum is rotated.
403	STOP PROTECT	0000 0001	STEP HALF	When the time selected as the setup menu item No. 400 (STILL TIMER) setting elapses while the unit is in the STOP mode, the unit automatically enters a tape protection mode. This menu item is for selecting which tape protection mode is to be entered by the unit. 0: STEP FWD 1: HALF LOADING **<Note>** When STEP FWD has been selected, the STANDBY OFF (HALF LOADING) mode will automatically be established when the total time during which the unit has been left standing in the stop status has reached 30 minutes (or 1 minute for a DV tape).

"__" denotes the factory setting.

<Precaution for STILL TIMER setting>

The cumulative standby time at the same position increases when programmes are transmitted or at other times when the same material is used repeatedly, etc.

USER menus

<TIME CODE>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
500	VITC BLANK	0000 0001	BLANK THRU	This selects whether to output the VITC data to the positions selected by VITC POS-1 in 501 and VITC POS-2 in 502. 0: The data is not output. 1: The data is output.
501	VITC POS-1	625 mode 0000 : 0004 : 0015 525 mode 0000 : 0006 : 0010	 7L : 11L : 22L 10L : 16L : 20L	This sets the position where the VITC signal is to be inserted. (The same line as for VITC POS-2 in 502 cannot be selected.)
502	VITC POS-2	625 mode 0000 : 0006 : 0015 525 mode 0000 : 0008 : 0010	 7L : 13L : 22L 10L : 18L : 20L	This sets the position where the VITC signal is to be inserted. (The same line as for VITC POS-1 in 501 cannot be selected.)
507	PHASE CORR	0000 0001	OFF ON	This selects whether to control the phase correction of the LTC output during playback. 0: Phase correction control is not performed. 1: Phase correction control is performed.
509	DF MODE	0000 0001	DF NDF	This selects the DF or NDF mode for CTL. 0: Drop frame mode 1: Non-drop frame mode **<Notes>** • This item is valid when the unit is in the LOCAL mode or when "ENA" is selected as the menu setup item No. 001 (LOCAL ENA). • This setup menu item is not displayed in the 625 mode.
511	VITC OUT	0000 0001	SBC VAUX	This selects the method of outputting VITC which is superimposed onto the video output signals. SBC: The time code recorded in the SBC area is output as the VITC. VAUX: The time code recorded in the VAUX area is output as the VITC.

"__" denotes the factory setting.

SBC (Sub Code Data) area

This area is separate from the video and audio data area on the helical track. It is used to store the time codes complying with the SMPTE/EBU standard. As with the conventional linear time code (LTC), the time code can be read even during rewinding or fast forwarding. It can also be read when the tape has stopped.

VAUX (Video Auxiliary Data) area

This area is located in the video data area on the helical track. It is used to store the auxiliary data relating to the video data.

<Note>

Control over the time code and user bit during tape play is exercised using the data recorded in the SBC area. In other words, data recorded in the SBC area is used as the source of the data which is displayed or superimposed or the data which is sent to the editing controller.

USER menus

<VIDEO>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
602	V-MUTE SEL	0000 0001	N-MUTE LOW RF	This selects whether the video output signal is to be muted when a blank part of the tape has been detected during playback. 0: The video signal is not muted (it is frozen). 1: The video signal is muted (it is turned to gray).
603	CC (F1) BLANK	0000 0001	BLANK THRU	This selects ON or OFF for the closed caption signal in the first field. 0: The signal is forcibly blanked. 1: The signal is not forcibly blanked. <Note> This setup menu item is not displayed in the 625 mode.
604	CC (F2) BLANK	0000 0001	BLANK THRU	This selects ON or OFF for the closed caption signal in the second field. 0: The signal is forcibly blanked. 1: The signal is not forcibly blanked. <Note> This setup menu item is not displayed in the 625 mode.
605	FREEZE SEL	0000 0001	FIELD FRAME	This selects the freeze mode for still pictures. 0: Field freeze 1: Frame freeze <Note> When frame freeze has been selected, the frame slow status is established in the slow-motion mode.
606	OUT C KILL	0000 0001	B/W COLOR	This selects the chroma colour killer processing for the video output signals. 0: The signals are forcibly processed as black-and-white signals. 1: The signals are automatically processed.
609	EDH	0000 0001	OFF ON	This selects whether to superimpose EDH onto the serial output signals. 0: EDH is not superimposed. 1: EDH is superimposed.
614	Pb/Pr OUT LV	0000 0001	MII B-CAM	This selects the analogue component output level. 0: MII level 1: Betacam level <Note> This setup menu item is not displayed in the 625 mode.
618	INTER-POLATE	0000 0001	OFF AUTO	During slow-motion playback, vertical interpolation is performed automatically to reduce the up and down movement of the playback picture. However, this setting can be used to forcibly turn off this interpolation. 0: The interpolation is forcibly turned off. 1: The interpolation is automatically turned on during slow-motion playback.
620	ESR MODE	0000 0001	OFF AUTO	This selects the operation mode of the edge subcarrier reduction (ESR) in the playback circuit. 0: ESR is forcibly turned off. 1: ESR is automatically turned on or off depending on the VTR operation.
621	CCR MODE	0000 0001	OFF ON	This selects the cross-colour processing during playback. 0: The signals which are output remain unchanged. 1: Cross-colour can be reduced. <Note> This setup menu item is not displayed in the 625 mode.

"__" denotes the factory setting.

USER menus

<AUDIO>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
706*	CH1 OUT LV	0000 0001 0002	4dB 0dB –20dB	This selects the audio output (CH1) reference level switching.
707*	CH2 OUT LV	0000 0001 0002	4dB 0dB –20dB	This selects the audio output (CH2) reference level switching.
708*	CH3 OUT LV	0000 0001 0002	4dB 0dB –20dB	This selects the audio output (CH3) reference level switching.
709*	CH4 OUT LV	0000 0001 0002	4dB 0dB –20dB	This selects the audio output (CH4) reference level switching.
710*	CUE OUT LV	0000 0001 0002	4dB 0dB –20dB	This selects the cue output reference level switching.
711*	MONIL OUT LV	0000 0001 0002	4dB 0dB –20dB	This selects the audio monitor output (Lch) reference level switching.
712*	MONIR OUT LV	0000 0001 0002	4dB 0dB –20dB	This selects the audio monitor output (Rch) reference level switching.
713	MONI OUT	0000 0001	UNITY VAR	This selects the audio monitor output UNITY/VARIABLE reference level switching. 0: The volume is output in the form of the preset value. 1: The volume is linked with the headphones volume control.
721	MONI CH SEL	0000 0001 0002	MANU AUTO1 AUTO2	This selects the monitor output. 0: The signals selected by the MONITOR SELECT switches are output. 1: PCM audio signals are output over a –1 to +1 (–2 to +2) range; otherwise, the cue signals are automatically output. 2: PCM audio signals are output in the play mode; otherwise, the cue signals are automatically output. <Notes> • This menu item setting is valid when the L and R MONITOR SELECT switches on the front panel are set to CH1, CH2, CH3 or CH4. (If CUE is selected, the cue signal will be output at all speeds regardless of the menu item setting.) • The speed applying for the DVCPRO (25 Mbps) format is given inside the parentheses.
727	PB FADE	0000 0001 0002	AUTO CUT FADE	This selects the processing method for the audio edit points (IN and OUT points) during playback. 0: The processing complies with the status established during recording. 1: Forced CUT 2: Forced FADE
728	EMBEDDED AUD	0000 0001	OFF ON	This selects whether to superimpose the audio data onto the serial output. 0: The data is not superimposed. 1: The data is superimposed.

"__" denotes the factory setting.

* EG model is fixed to –3 dBu.

USER menus

<AUDIO> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
729	MONITOR MIX L	0000 0001 0002	OFF CH1+2 CH3+4	This makes it possible to select mixed signals for the monitor output. 0: No mixing 1: The CH1 and CH2 signals are mixed and output to the left channel. 2: The CH3 and CH4 signals are mixed and output to the left channel.
730	MONITOR MIX R	0000 0001 0002	OFF CH1+2 CH3+4	This makes it possible to select mixed signals for the monitor output. 0: No mixing 1: The CH1 and CH2 signals are mixed and output to the right channel. 2: The CH3 and CH4 signals are mixed and output to the right channel.
731	CUE OUT SEL	0000 0001	OFF ON	This selects whether the cue signal is to be output to the main line output in the search mode. 0: The cue signal is not output. 1: The cue signal is output. (However, this applies only when setup menu item No. 721 (MONI CH SEL) is not set to MANU.)
732	CUE SLOW	0000 0001	STEP LINEAR	This selects the tape travel status (cue track playback status) during the slow-motion playback. 0: The output picture takes precedence, and the tape is advanced in steps. 1: Cue track playback takes precedence and the tape travels linearly. <Notes> When "1" (LINEAR) has been selected: • The image may not appear as clearly as in the STEP mode. • The CTL counter may not operate normally.
734	MONI SEL INH	0000 0001 0002	OFF ON ON1	This enables or disables the operation of the MONITOR SELECT switches on the front panel. 0: Operation is enabled. 1: Operation is disabled. 2: Operation is disabled in the FULL display mode; it is enabled in the FINE display mode only.
750	DV PB ATT	0000 0001	OFF ON	This selects the audio output level during DV playback. 0: The audio output level is not attenuated. 1: The audio output level is attenuated (reduced).
751	REC PT MUTE	0000 0001	OFF ON	This selects whether to mute the sound where recordings are joined during DV playback. 0: The sound is not muted. 1: The sound is muted.

"__" denotes the factory setting.

USER menu

<V BLANK>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
804	BLANK LINE	0000 0001 0002	BLANK THRU MANU	This sets the blanking to ON or OFF for the lines in the vertical blanking period of the video output signals. 0: All the lines are forcibly blanked. 1: None of the lines are blanked. 2: Blanking is set ON or OFF for each line. <Note> When "2" (MANU) is selected, operation transfers to the sub screen when the STOP button is pressed, and ON or OFF can be selected for each line. To return from the sub screen, press the STOP button again.
Sub-screen				
625 mode				
00 : 15	LINE 7&320 : : 22&335	0000 0001	BLANK THRU	0: The line is forcibly blanked. 1: The line is blanked.
525 mode				
00 : 11	LINE 10&273 : : 21&284	0000 0001	BLANK THRU	0: The line is forcibly blanked. 1: The line is blanked.

"__" denotes the factory setting.

Setup menus

USER menu

<MENU>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
A00	LOAD	0000 0001 0002 0003	USER2 USER3 USER4 USER5	This selects the user file whose settings are to be loaded into USER1. 0: The contents of the USER2 file are loaded. 1: The contents of the USER3 file are loaded. 2: The contents of the USER4 file are loaded. 3: The contents of the USER5 file are loaded. **<Note>** When the SET button is pressed upon completion of the loading, the settings in the file are stored in the memory. If the MENU is pressed instead, the settings will not be changed.
A01	SAVE	0000 0001 0002 0003 0004	USER2 USER3 USER4 USER5 LOCKED	This selects the user file in which the USER1 settings are to be saved. 0: The USER1 settings are to be saved in the USER2 file. 1: The USER1 settings are to be saved in the USER3 file. 2: The USER1 settings are to be saved in the USER4 file. 3: The USER1 settings are to be saved in the USER5 file. 4: The "LOCKED" display appears when the change prohibit status has been established for all the files. **<Notes>** • A user file for which change prohibit is set cannot be selected. • When the change prohibit status has been established for all the files, the "LOCKED" display appears, and the saving operation cannot be performed.
A02	P.ON LOAD	0000 0001 0002 0003 0004	OFF USER2 USER3 USER4 USER5	This selects the user file whose settings are to be loaded into USER1 when the power is turned on so that the unit will start up with these settings. 0: The unit is started up with the settings in the user file which was previously set. 1: The settings of USER2 are loaded in USER1 and the unit starts with these settings. 2: The settings of USER3 are loaded in USER1 and the unit starts with these settings. 3: The settings of USER4 are loaded in USER1 and the unit starts with these settings. 4: The settings of USER5 are loaded in USER1 and the unit starts with these settings.
A03	MENU LOCK	0000 0001	OFF ON	This selects whether the lock mode is to be set or released for the user files (USER2 to USER5). 0: The lock is released (changes to the files can be made). 1: The lock is set (no changes to the files can be made). **<Note>** The lock cannot be set for USER1.

"__" denotes the factory setting.

<Notes>
- Menu items No. A00 (LOAD), No. A01 (SAVE) and No. A02 (P.ON LOAD) can be set for the USER1 file only. They will not appear for the USER2 to USER5 files.
- Menu item No. A03 (MENU LOCK) can be set for the USER2 to USER5 files only.
It will not appear for the USER1 files.

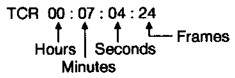
Time Code/User Bit

Time code

The time codes are used when their values are to be read by the time code reader (time code signal reader) and the absolute position of the tape is to be displayed in increments of hours, minutes, seconds and frames.

The time codes are written in the sub-code area (data area) of the helical track. They enable the VTR's playback speed to be read from the stop mode to slow-motion playback up to high-speed speed play (approx. 50× normal speed or approx. 100× when a DVCPRO tape is used).

The time code values are shown on the display or superimposed.



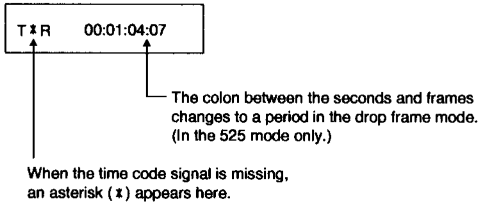
User bit

The "user bit" refers to the 32-bit (8-digit) data frame among the time code signals which has been released to users.

Time Code/User Bit Playback

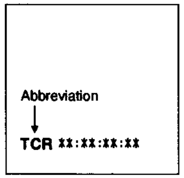
1. Set the unit to the stop mode.
2. Set the TC/CTL switch to TC.
3. Set the TC/UB switch to TC or UB.
   TC: The time code is displayed.
   UB: The user bit is displayed.
   - When it is no longer possible to read the time code, it is interpolated using the CTL signal.
4. Press the PLAY button.
   Playback now commences, and the time code appears on the display.
   When "ON" has been selected as the setup menu item No. 007 (SUPER), the time code value is superimposed onto the video signal from the VIDEO OUT 3 connector.

<Notes>
- The colon between the seconds and frames changes to a period when the drop frame time code is read. (In the 525 mode only.)
- When the time code signal is missing, it is automatically compensated for using the CTL signal. In this case, the following display appears.


T*R 00:01:04:07
The colon between the seconds and frames changes to a period in the drop frame mode. (In the 525 mode only.)
When the time code signal is missing, an asterisk (*) appears here.

Superimpose Screen

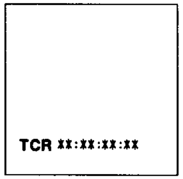
The control signals, time code, etc. are displayed using abbreviations.


Abbreviation
TCR **:**:**:**

TV monitor

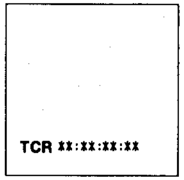
CTL = control signal
TCR = TC time code reading
UBR = TC user bit reading

Characters displayed
The background of the characters superimposed on the display can be changed using setup menu item No. 011 (CHARA TYPE).

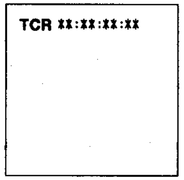


TV monitor

Display position
The position of the characters superimposed on the display can be changed using setup menu items No. 009 (CHARA H-POS) and No. 010 (CHARA V-POS).

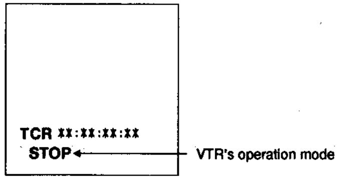


TV monitor



TV monitor

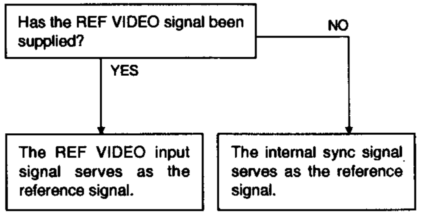
Operation mode
The VTR's operation mode can also be displayed using setup menu item No. 008 (DISPLAY SEL).


TCR **:**:**:**
STOP
VTR's operation mode

TV monitor

Servo Reference

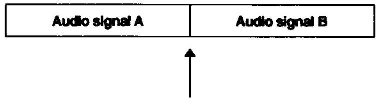
This unit automatically selects the reference video signal which is supplied from the REF VIDEO input connector or the internal sync signal (INT) as the servo reference signal.
When the signal is selected, the unit's mode and servo reference setting stand in the relationship shown in the flowchart presented below.


Has the REF VIDEO signal been supplied?
NO
YES
The REF VIDEO input signal serves as the reference signal.
The internal sync signal serves as the reference signal.

Audio V Fade Function

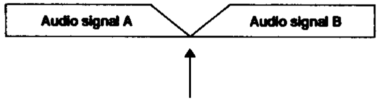
When a tape is edited, the information on the edit point splicing method selected is recorded on the tape. This information is therefore sensed when the tape is inserted and played back, and V fade or cut processing is automatically performed for these sections [but only when "AUTO" has been set as the playback fade selection (setup menu item No. 727)].

When "CUT" is set as the edit point splicing method


Audio signal A
Audio signal B

Noise is generated at the edit splice.

When "FADE" is set as the edit point splicing method


Audio signal A
Audio signal B

V fade is performed for an instant to eliminate the noise.

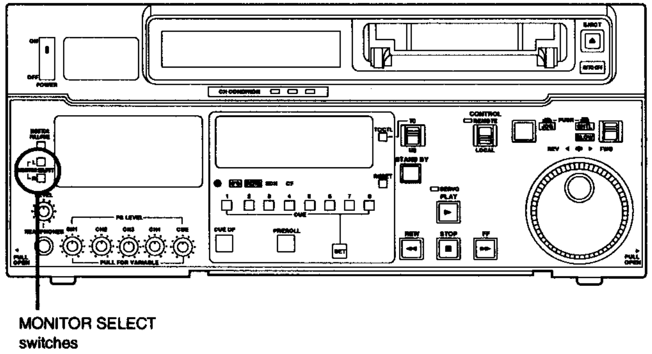
<Notes>
- When "CUT" is set as the edit point splicing method (setup menu item No. 727), cut processing is performed for all the splices.
- When "FADE" is set as the edit point splicing method (setup menu item No. 727), V fade processing is performed for all the splices.

Selecting the Audio Monitor Output

Monitor output channels

The monitor output channels can be selected using the MONITOR SELECT switches as shown below.

Monitor output	Output signals
L	CH1/CH2/CH3/CH4/CH1+CH2/CH3+CH4/CUE
R	CH1/CH2/CH3/CH4/CH1+CH2/CH3+CH4/CUE

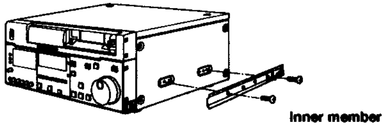


Rack Mounting

The unit can be mounted into a 19-inch standard rack if the AJ-MA75P rack-mounting adaptors (optional accessory) are used. For the installation rails, it is recommended that the rail and bracket for 18" length (model number CC3061-99-0400) of CHASSIS TRAK be used. (The complete slide rail and bracket unit is not available from Panasonic.) For further details, consult with your dealer.

1 Remove the screws on the left and right sides of the unit.

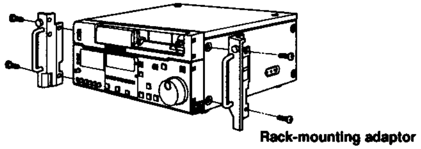
2 Use the screws which have just been removed to attach the inner members of the slide rails.



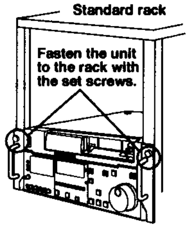
The length of the screws used is subject to restriction. If some of the mounting screws have been lost or misplaced, use screws which are less than 10 mm long in their place. Four screws must be used to secure each inner member.

3 Attach the outer member brackets to the rack.
Check that the height is the same for the left and right brackets.

4 Attach the AJ-MA75P rack-mounting adaptors with the four screws supplied.



1 Remove the four rubber feet from the bottom of the unit, and install the unit in the rack.
After the unit has been installed, check that it moves smoothly along the rails.



<Notes>
- Keep the temperature inside the rack to between 5°C and 40°C.
- Bolt the rack securely to the floor so that it will not topple over when the VTR is drawn out.

Video Head Cleaning

This unit has an auto head cleaning function which automatically reduces the dirt on the heads. However, to further increase the unit's reliability, it is recommended that its video heads be cleaned every day.
Use the cleaning fluid designated by Panasonic.

Condensation

Condensation forms due to the same principle involved when droplets of water form on a window pane of a heated room. This phenomenon occurs when the unit or tape is moved between places where the temperature or humidity varies greatly or when, for instance:
- It is moved to a very humid place full of steam or a room immediately after it has been heated up.
- It is suddenly moved from an air-conditioned location to a hot or humid location.

When moving the unit or tape to locations such as these, leave it standing for about 10 minutes instead of switching on the power immediately.
If condensation has formed on or in the unit, the AUTO OFF lamp lights, and the cassette tape is automatically ejected.
Keep the power supplied and wait until the AUTO OFF lamp goes off.

■ Maintenance

Before proceeding with maintenance, be absolutely sure to set the power switch to OFF and take hold of the power plug and unplug it from the power outlet.
Use a soft cloth to clean the cabinet. In the case of stubborn dirt, dilute some kitchen detergent, soak a cloth in the solution, wring it out well, and wipe the surfaces clean. Then wipe up the remaining moisture using a dry cloth.

- ■ Do not insert fingers or any objects into the video cassette holder.
- ■ Avoid operating or leaving the unit near strong magnetic fields. Be especially careful of large audio speakers.
- ■ Avoid operating or storing the unit in an excessively hot, cold, or damp environment as this may result in damage both to the unit and to the tape.
- ■ Do not spray any cleaner or wax directly on the unit.
- ■ If the unit is not going to be used for a length of time, protect it from dirt and dust.
- ■ Do not leave a cassette in the unit when not in use.
- ■ Do not block the ventilation slots of the unit.
- ■ Use this unit horizontally and do not place anything on the top panel.
- ■ Do not attempt to disassemble the unit. There are no user serviceable parts inside.
- ■ If any liquid spills inside the recorder, have the unit examined for possible damage.
- ■ Refer any needed servicing to authorized service personnel.

Error Messages

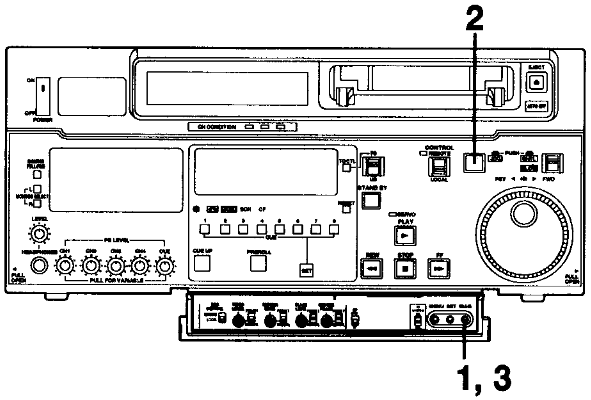
When a warning occurs in this unit, the warning lamp lights up.
Open the DIAG menu. A description of the warning will now appear on the counter display and TV monitor. In addition, if trouble has occurred in the operation of the unit, the AUTO OFF lamp lights, and a message appears on the counter display.

DIAG menu

This displays the VTR information.
The VTR information includes the warning information, the deck's serial number, and hour meter (usage time) information. The DIAG menu appears on the TV monitor when the TV monitor has been connected to the VIDEO OUT 3 connector on the connector panel.

Displaying the DIAG menu

1. Press the DIAG button.
   The DIAG menu screen appears on the TV monitor, and a message appears on the counter display.
2. Each time the search button is pressed, the display is switched to the warning information, the deck's serial number and hour meter information in this order.
3. Press the DIAG button to return to the original display.



Warning information display

- A warning message appears whenever a warning occurs (the warning lamp lights). When a warning has not occurred, "NO WARNING" is displayed.
- When more than one warning has occurred, a description of each warning can be checked by turning the search dial.

Error Messages

Displaying the hour meter information

Turn the search dial to move the cursor (*), and a description of the item where the cursor is located will appear on the counter display.

Item No.	Item	Description
Ser	*********	This displays the deck's serial number.
H00	OPERATION	This displays the number of hours during which the power has been supplied in 1-hour units.
H01	DRUM RUN	This displays the number of hours during which the drum has been rotating in 1-hour units.
H02	TAPE RUN	This displays the number of hours during which the tape has travelled in the FF, REW, PLAY and SEARCH (JOG, VAR, SHTL) modes in 1-hour units.
H03	THREADING	This displays the number of times the tape has been threaded and unthreaded in 1-time units.
H11	DRUM RUN r	This displays the number of hours during which the drum has been rotating in 1-hour units. (The display can be reset.)
H12	TAPE RUN r	This displays the number of hours during which the tape has travelled in the FF, REW, PLAY and SEARCH (JOG, VAR, SHTL) modes in 1-hour units. (The display can be reset.)
H13	THREADING r	This displays the number of times the tape has been threaded and unthreaded in 1-time units. (The display can be reset.)
H30	POWER ON	This displays the number of times the power has been turned on in 1-time units.

<Notes>

- The hour meter information items which can be reset are reset by the dealer when maintenance work, etc. has been performed.
- Operations involving the search button and search dial cannot be performed while the DIAG menu is displayed.

If "T&S&M" has been selected as the setup menu item No. 008 (DISPLAY SEL) setting, the message will appear on the mode display area when a warning or error has occurred. When two or more warnings or errors have occurred, they are displayed in sequence of priority starting with the one which has the highest priority.

Priority	Display	Description
High ↑	Error messages (see error message table)	When trouble has occurred in the operation of the unit, the AUTO OFF lamp lights, and an error message is displayed.
	ILLEGAL REF	When illegal signals, which are not black burst or other composite signals complying with the broadcast standards (625: CCIR624, 525: RS-170A), have been supplied to the REF VIDEO input connector, the message shown on the left may appear depending on the signal concerned. Since, in a case like this, it cannot be guaranteed that the VTR will operate properly, eject the cassette and turn off the power. Check the REF VIDEO signals before turning the power back on. <Note> The tape will not be damaged even when this message appears.
↓ Low	Warning messages (see error message table)	When a warning occurs, the warning lamp lights, and a warning message is displayed. When two or more warnings have occurred, they are displayed in sequence of priority starting with the one which has the highest priority.

Warning messages

Priority	On counter display and TV monitor	Description	VTR operation
High ↑	FAN STOP	This appears when the fan motor has stopped.	The VTR continues operating.
	NO RF	This appears when a blank portion of the tape lasting more than 1 second has been detected during playback. Any portion of the tape is recognized as a blank when all the following conditions are satisfied: • When no signals are output from any of the heads. • When no playback data can be read. • When there is no CTL signal (this does not apply with DV tapes for general consumer applications).	The VTR continues operating.
	SERVO NOT LOCKED	This appears when the servo is not locked for 3 or more seconds during playback.	The VTR continues operating.
	LOW RF	This appears when it has been detected that the envelope level has dropped to approximately one-third of its usual level during playback.	The VTR continues operating.
↓ Low	HIGH ERROR RATE	This appears when the error rate increases, and correction or interpolation is performed for either the video or audio playback signals.	The VTR continues operating.

Error Messages (when AUTO OFF lamp lights)

On counter display	On TV monitor	Description	VTR operation (restart action)
CAP ROTATE TOO SLOW	**CAP ROTA TOO SLOW**	When the capstan motor speed is abnormally low, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
CAP TENSION ERROR	**CAP TENSION ERROR**	When abnormal tension is detected at the supply side in the capstan mode, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
DEW	**DEW**	When condensation is detected, the AUTO OFF lamp lights, the message display flashes, and the VTR is transferred to the eject mode. After the tape is ejected, the drum rotates in order to dry out the condensation. When the condensation has dried out, the AUTO OFF lamp goes off, the message display is cleared, and the VTR can be operated again. • When condensation is detected in the eject mode, the drum starts rotating as soon as it is detected. • When condensation is detected when the cassette has been inserted, the drum rotation is stopped, and after the tape is ejected, the drum starts rotating.	Eject
DRUM ROTATE TOO FAST	**DRUM ROTA TOO FAST**	When the cylinder motor speed is abnormally high, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
DRUM ROTATE TOO SLOW	**DRUM ROTA TOO SLOW**	When the cylinder motor speed is abnormally low, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
E-FF	**E-FF**	When the tape start and tape end are detected simultaneously either during or after loading, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
FRONT LOAD ERROR	**FRONT LOAD ERROR**	When the take-up reel has been rotating without taking up the tape for a specific period of time while the start or end processing operation during loading (half position) is being performed, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
FRONT LOAD MOTOR	**FRONT LOAD MOTOR**	When the cassette fails to move up even when 6 seconds have elapsed after the eject mode was established, the AUTO OFF lamp lights, and the message display flashes. <Note> When the cassette fails to move down even when 6 seconds have elapsed after the cassette was inserted, the eject mode is established.	Stop (power OFF → ON)
LOADING MOTOR	**LOADING MOTOR**	When the unloading operation fails to be completed within 6 seconds, the AUTO OFF lamp lights, and the message display flashes. <Note> When the loading operations fails to be completed within 6 seconds, the eject mode (unloading mode) is established.	Stop (power OFF → ON)
REEL DIR UNMATCH	**REEL DIR UNMATCH**	When the take-up reel motor is running in the reverse direction, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)

Error Messages (when AUTO OFF lamp lights)

On counter display	On TV monitor	Description	VTR operation (restart action)
REEL TENSION ERROR	**REEL TENSION ERROR**	When abnormal tension at the supply side is detected in the reel mode, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
SERVO COMM ERROR	**SERVO COMM ERROR**	When the servo microcomputer does not follow the instructions of the system control microcomputer even after 10 seconds have elapsed, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
SERVO CONTROL ERROR	**SERVO CONTROL ERR**	When there is no response from the servo microcomputer for 1 or more seconds, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
SERVO ERROR	**SERVO ERROR**	When only the servo microcomputer was reset in an instantaneous power failure, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
S-FF/REW TIMEOVER	**S-FF/REW TIMEOVER**	When the start or end processing operation fails to be completed, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
S REEL ROTA TOO FAST	**S REEL TOO FAST**	When the supply reel motor rotates at an abnormally fast rate, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
S REEL TORQUE ERROR	**S REEL TORQUE ERR**	When an abnormal torque applied to the supply reel motor is detected or an abnormal current flowing to the current-sensing resistor is detected, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
T REEL ROTA TOO FAST	**T REEL TOO FAST**	When the take-up reel motor rotates at an abnormally fast rate, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
T REEL TORQUE ERROR	**T REEL TORQUE ERR**	When an abnormal torque applied to the take-up reel motor is detected, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
UNLOAD ERROR	**UNLOAD ERROR**	When the tape has not been wound up during unloading, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
WINDUP ERROR	**WINDUP ERROR**	If, after the total tape amount has been detected, the amount of tape wound up on the take-up reel and the amount of tape supplied by the supply reel differ to an abnormal extent while the tape is travelling, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)
WINDUP REEL NOT ROTA	**W-UP REEL NOT ROTA**	If, after the cassette has been inserted, the tape take-up reel has not wound up the tape while the total tape amount is not detected and while the tape is travelling, the AUTO OFF lamp lights, and the message display flashes.	Stop (power OFF → ON)

RS-232C Interface

1. Introduction

(1) The VTR can be operated by commands when the RS-232 interface is used.

(See command tables on pages 68 to 70.)

(2) Conditions for acknowledging commands from the RS-232C interface.

The front panel REMOTE/LOCAL switch must be set to REMOTE.
The setup menu item No. 204 (RS232C SEL) must be set to ON.

If the above conditions are not met, [ACK] + [STX] ER001 [ETX] is returned to the external unit.
Whether the [ACK] code is returned depends on the setting which has been selected for setup menu item No. 209 (RETURN ACK).

2. Hardware specifications

External interface specifications

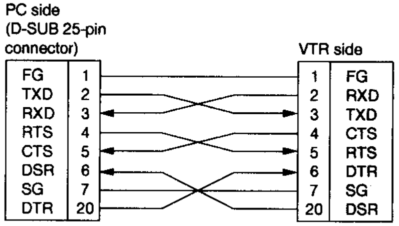
(1) Connector specifications

Connector: D-SUB 25-pin (crossover cable supported)

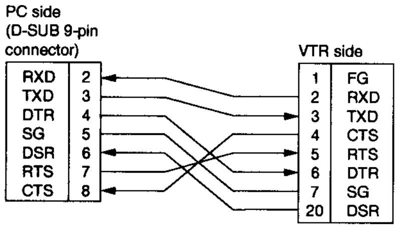
Pin No.	Signal	Circuit name	Description
1	FG	Protective ground	Frame ground
2	RXD	Received data	Data is sent to PC.
3	TXD	Transmitted data	Data is received from PC.
4	CTS	Clear to send	Shorted with pin 5.
5	RTS	Request to send	Shorted with pin 4.
6	DTR	Data terminal ready	Not processed
7	SG	Signal ground	Signal ground
20	DSR	Data set ready	+ voltage output after communication enable status

(2) Example of connections with controller (PC)

(Using crossover cable with D-SUB 25-pin connectors)



(Using crossover cable with D-SUB 9-pin and 25-pin connectors)



3. Software specifications

Protocol

1) **Communication parameters**

Communication system	Asynchronous, full duplex
Baud rate	300, 600, 1200, 2400, 4800, 9600 bps
Data length	7 bits or 8 bits
Stop bit	1 bit or 2 bits
Parity bit	None, odd or even
ACK code	ACK code returned or not returned **<Note>** The ACK code is what is returned from the VTR to the controller when data has been sent successfully from the controller.

"__" denotes the factory setting.

Changes to the settings can be made using the setup menu items listed below.

Communication parameter	Setup menu item
Communication system	No. 205 BAUD RATE
Data length	No. 206 DATA LENGTH
Stop bit	No. 207 STOP BIT
Parity bit	No. 208 PARITY
ACK code	No. 209 RETURN ACK

2) **Send format [controller (PC) → VTR]**

■ **Data format**

```
[STX]  [command]   [:]    [data]    [ETX]
 02h    XX XX XX   3Ah    XX-XX      03h    ← (ASCII code: symbols, numbers, upper-case letters)

                20h<XX<7Fh
```

. [command]: Command identifier; a 3-byte identifier (ASCII code: symbols, numbers, upper-case letters) is sent as the command.

. [:]: The colon serves as a delimiter between the command and data.

. [data]: Data (ASCII code: symbols, numbers, upper-case letters) can be added in the number of bytes required.

■ **Outline of procedure for sending data from controller**

1. The send command starts with STX (start of text = 02h). The command is then identified by COMMAND which follows, and the data is added as required.
   The format ends with ETX (end of text = 03h).
2. When a different command is to be sent, a response is awaited from the VTR, and then the command is sent. (See page 67)
3. If STX is sent again before ETX is sent, the receive data buffer inside the VTR is cleared. A command error is returned to the controller, and the data is newly processed with STX, which was received again, at the head.

(3) **Return format [VTR → controller (PC)]**

The following responses are made to the command. If necessary, more than one response may be made.

■ **When the communication has terminated normally**

1. The receive completion message is returned.
   [ACK]
   06h

2. The execution completion message is returned.

```
[STX]  [command]   [data]   [ETX]
 02h   XX XX XX    XX-XX     03h
```

• [command]: This is the message (data) which is returned or the execution completion message identifier.

• [data]: This is the data to be returned. It can be omitted.

[example]: Send command → Return message (data)

[STX] OPL [ETX] → [ACK] [STX] OPL [ETX]

■ **When the communication has terminated abnormally**

[NACK]
15h

■ **When processing is not possible due to incorrect data or trouble in the VTR**

1. The receive completion message is returned.
   [ACK]
   06h

2. An error code is returned.

```
[STX]  E R N1 N2 N3  [ETX]
 02h    Error code    03h
```

4. Error code table

ER001: Invalid command
- Unsupported command received
- Error in command execution

ER002: Parameter error
ER102: VTR mode error (front loading motor)
ER103: VTR mode error (loading motor)
ER104: VTR mode error (drum, capstan system)
ER105: VTR mode error (reel system)
ER106: VTR mode error (tension system)
ER108: VTR dew (condensation) error
ER1FF: VTR system error

5. Command table

(1) Commands relating to operation control

<Notes>

- Under the "return (completion) message", only the execution messages which are returned after [ACK] is returned when data is received are listed.
- In the case of commands not listed in the table, ER001 (invalid command) is returned after [ACK] has been returned.

VTR operation	Send command	Return (completion) message	Supplementary notes
STOP	[STX] OSP [ETX]	[STX] OSP [ETX]	This command is for stopping the tape travel.
EJECT	[STX] OEJ [ETX]	[STX] OEJ [ETX]	This command is for ejecting the cassette tape. The output picture status differs according to the setup menu item No. 111 (FRZ MODE SEL) setting. For details, refer to the setup menu item.
PLAY	[STX] OPL [ETX]	[STX] OPL [ETX]	This command is for starting playback.
REWIND	[STX] ORW [ETX]	[STX] ORW [ETX]	This command is for rewinding the tape. The maximum tape speed differs according to the setup menu item No. 102 (FF. REW MAX) setting. For details, refer to the setup menu item.
FAST FORWARD	[STX] OFF [ETX]	[STX] OFF [ETX]	This command is for fast forwarding the tape. The maximum tape speed differs according to the setup menu item No. 102 (FF. REW MAX) setting. For details, refer to the setup menu item.
SHTL FORWARD	[STX] OSF:data [ETX]	[STX] OSF [ETX]	This is the forward direction shuttle command.
	data = n: speed data 0: STILL (STILL) 1: ×0.03 (×0.03) 2: ×0.1 (×0.1) 3: ×0.2 (×0.2) 4: ×0.5 (×0.5) 5: ×1 (×1) 6: ×1.85 (×1.85) 7: ×4.1 (×3.1) 8: ×9.5[*1] (×9.5[*1]) 9: ×16[*1] (×16[*1]) A: ×32[*1] (×32[*1]) [*1]: [This speed differs according to the setup menu item No. 101 (SHTL MAX) setting.] The speeds for the DV format are given in parentheses.		

VTR operation	Send command	Return (completion) message	Supplementary notes
SHTL REVERSE	[STX] OSR:data [ETX]	[STX] OSR [ETX]	This is the reverse direction shuttle command.
	data = n: speed data 0: STILL (STILL) 1: ×0.03 (×0.03) 2: ×0.1 (×0.1) 3: ×0.2 (×0.2) 4: ×0.5 (×0.5) 5: ×1 (×1) 6: ×1.85 (×1.85) 7: ×4.1 (×3.1) 8: ×9.5[*1] (×9.5[*1]) 9: ×16[*1] (×16[*1]) A: ×32[*1] (×32[*1]) [*1]: [This speed differs according to the setup menu item No. 101 (SHTL MAX) setting.] The speeds for the DV format are given in parentheses.		
STANDBY OFF	[STX] OBF [ETX]	[STX] OBF [ETX]	This command is for setting the VTR to STANDBY OFF.
STANDBY ON	[STX] OBN [ETX]	[STX] OBN [ETX]	This command is for setting the VTR to STANDBY ON.

(2) Commands related to inquiries

<Notes>

- Under the "return (completion) message", only the execution messages which are returned after [ACK] is returned when data is received are listed.
- In the case of commands not listed in the table, ER001 (invalid command) is returned after [ACK] has been returned.

VTR operation	Send command	Return (completion) message	Supplementary notes
CTL/TC DATA REQUEST	[STX] QCD [ETX]	[STX] CD data [ETX]	This command is for inquiring about the counter value.
		data = f w gh mm ss ff f = F w = S gh = CTL: g = SP (20h): for a plus display – (2Dh): for a minus display h = 0 – 9: hours TC: gh = 00 – 23: hours mm = 00 – 59: minutes ss = 00 – 59: seconds ff = 00 – 24: frames (625 mode) = 00 – 29: frames (525 mode)	CTL or TC is returned, whichever corresponds to the front display mode.
STATUS REQUEST	[STX] QOP [ETX]	[STX] xxx [ETX]	This command is for inquiring about the VTR's operation mode.
		xxx = OEJ: EJECT OFF: FAST FORWARD OPL: PLAY ORW: REWIND OSP: STOP (including STANDBY ON) SRS: PREROLL OBF: STANDBY OFF OSF: SHTL FORWARD OSR: SHTL REVERSE OJG: JOG FORWARD/REVERSE OSW: VAR FORWARD/REVERSE	
ID (VTR No.) REQUEST	[STX] QID [ETX]	[STX] data [ETX]	This command is for inquiring about the VTR used.
		data = AJ-D940E (625 mode) AJ-D940 (525 mode)	

(3) Microsoft QuickBASIC sample programme

```
CLS
STX$ = CHR$(&H2): ETX$ = CHR$ (&H3): NAK$ = CHR$(15): ACK$ = CHR$(&H6)
PRINT "*** RS-232C COMMUNICATION SAMPLE PROGRAM ***"
PRINT "Type Command 'QUIT' to quit."
PRINT

REM *** Communication Port Initial & Open ***
REM Port 1,9600Bps,No parity,8 bit data,1 stop bit
OPEN "COM1:9600,N,8,1" FOR RANDOM AS #1 LEN = 256

REM *** Input Command & Send Command ***
SendCmd:
INPUT "Input Command ="; SEND$
IF SEND$ = "QUIT" THEN GOTO ProgEnd
PRINT #1, STX$ + SEND$ + ETX$

REM *** Wait for Receive Command ***
WHILE LOC(1) = 0
        WAITKEY$ = INKEY$
        IF WAITKEY$ = "Q" THEN PRINT "*** Quit ***": GOTO ProgEnd
WEND

REM *** Receive Command ***
RecvCmd:
RECV$ = INPUT$(1, #1)
IF RECV$ = STX$ THEN RECV$ = "[Stx]"
IF RECV$ = ACK$ THEN RECV$ = "[Ack]"
IF RECV$ = NAK$ THEN RECV$ = "[Nak]"
IF RECV$ = ETX$ THEN BUFFER$ = BUFFER$ + "[Etx]": GOTO DispOut
BUFFER$ = BUFFER$ + RECV$
GOTO RecvCmd

REM *** Output Receive Command ***
DispOut:
PRINT "Receive Command ="; BUFFER$
PRINT
BUFFER$ = ""
GOTO SendCmd

REM *** End Program ***
ProgEnd:
CLOSE
END
```

Microsoft QuickBASIC is a trademark of Microsoft Corporation.

Connector Signals

REF VIDEO IN

REF VIDEO IN	BNC × 2	Loop-through, 75Ω termination switch provided

VIDEO OUT

SERIAL OUT (DIGITAL)	BNC × 3
Y, P_B, P_R (ANALOG)	BNC × 3
VIDEO OUT	BNC × 3

AUDIO OUT

SERIAL OUT (DIGITAL)	BNC × 3	
AUDIO OUT (DIGITAL)	XLR × 2	CH1/CH2, CH3/CH4 AES/EBU format
AUDIO OUT (ANALOG)	XLR × 4	CH1, CH2, CH3, CH4
CUE OUT	XLR × 1	
TIME CODE OUT	XLR × 1	
MONITOR OUT	XLR × 2	L/R
HEADPHONES (front panel)	6.35 mm	

Pin No.	Signal
1	GND
2	HOT
3	COLD

RS-422A REMOTE (9P)

REMOTE IN

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	FRAME GROUND	4	RECEIVE COMMON	7	TRANSMIT B
2	TRANSMIT A	5	———	8	RECEIVE A
3	RECEIVE B	6	TRANSMIT COMMON	9	FRAME GROUND

REMOTE OUT

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	FRAME GROUND	4	TRANSMIT COMMON	7	RECEIVE B
2	RECEIVE A	5	———	8	TRANSMIT A
3	TRANSMIT B	6	RECEIVE COMMON	9	FRAME GROUND

Connector Signals

PARALLEL REMOTE (25P)

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	PLAY COMMAND	10	———	19	STAND BY ON STATUS
2	STOP COMMAND	11	———	20	PREROLL STATUS
3	FF COMMAND	12	≥10V, MAX 300mA	21	SERVO LOCK STATUS
4	REW COMMAND	13	PLAY STATUS	22	OPERATION ENABLE STATUS
5	———	14	STOP STATUS	23	———
6	EJECT COMMAND	15	FF STATUS	24	———
7	STAND BY COMMAND	16	REW STATUS	25	GND
8	PREROLL COMMAND	17	———		
9	IN SET COMMAND	18	EJECT STATUS		

<Notes>

- Supply TTL level, active low electrical signals with an edge of 100 ms or more to the COMMAND pins.
- The STATUS pins are open collector outputs; a max. sink current of 6 mA is output from these pins.

RS-232C REMOTE (D-SUB 25 pins, crossover cable supported)

Pin No.	Signal	Circuit name	Description
1	FRAME GROUND	Protective ground	Frame ground
2	RxD	Received data	Data is sent to PC.
3	TxD	Transmitted data	Data is received from PC.
4	CTS	Clear to send	Shorted with pin 5.
5	RTS	Request to send	Shorted with pin 4.
6	DTR	Data terminal ready	Not processed
7	GS	Signal ground	Signal ground
20	DSR	Data set ready	+ power output after communication enable status

ENCODER REMOTE (15P)

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	———	6	SYSTEM H 0	11	RET GND
2	BLACK LEVEL	7	SYS.SC COARSE (2)	12	———
3	C LEVEL	8	−12V	13	———
4	GND	9	CHROMA PHASE	14	SYS.SC FINE
5	+12V	10	VIDEO LEVEL	15	SYS.SC COARSE (1)

SECTION 2

DISASSEMBLY & MAINTENANCE

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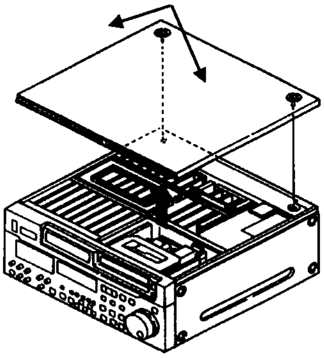
1. Disassembly Method

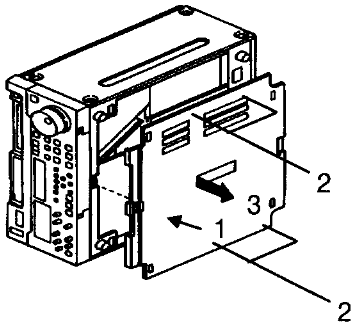
1-1. Removal of Top Panel

Loosen 2 screws.



Loosen 2 screws and remove the top panel.

1-2. Removal of Bottom Panel



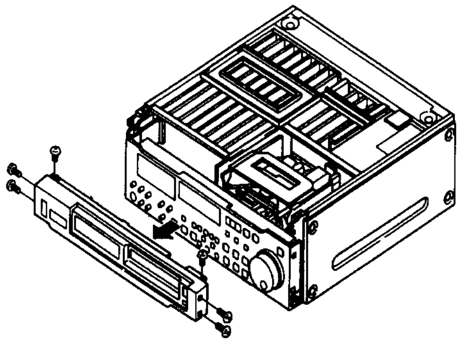
(1) Loosen the screw 1.

(2) Remove the 4 screws numbered 2.

(3) Slide the bottom panel and remove it.

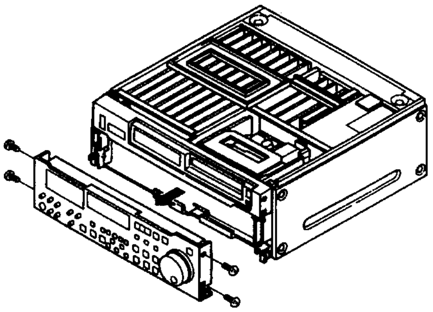
1-3. Removal of Upper Front Panel

(1) Remove the 4 screws at right and left, then draw the upper front panel.



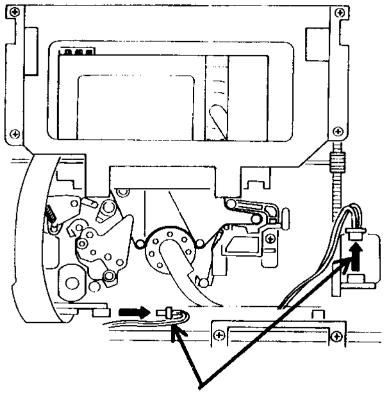
1-4. Removal of Front Panel

(1) Remove the 4 screws at left and right. Then draw it and remove the connector and remove the Front Panel.



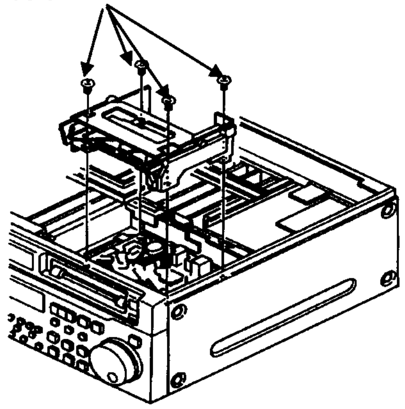
1-5. Removal of Front Loading Unit

(1) Remove the connectors at front loading motor and interconnection board. Then rotate the emergency eject gear (red) counterclockwise until the screw which is used to fix the front loading u can be seen.



Remove 2connectors.

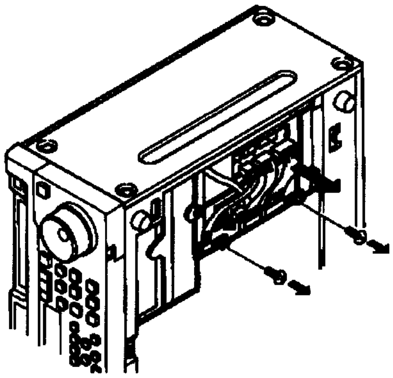
(2) Remove the 4 screws of the loading unit as shown below.



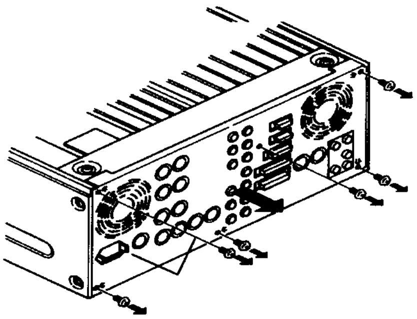
1-6. Removal of Power Supply Unit

(1) Remove 5 connectors with the Power Supply unit on the VTR bottom side.

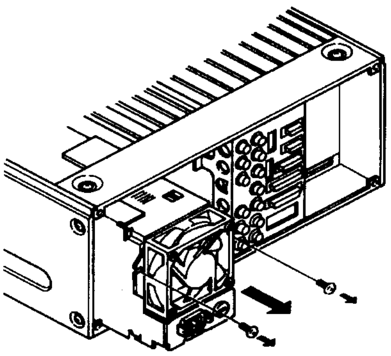
(2) Remove 2 screws with the Power Supply unit on the VTR bottom side.



(3) Remove 1 screw with the Power Supply unit on the VTR top side.

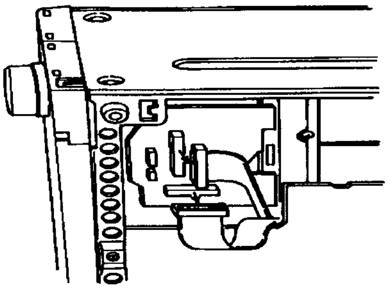


(4) Remove 2 screws at VTR Rear panel which are used to fix the Power supply unit.

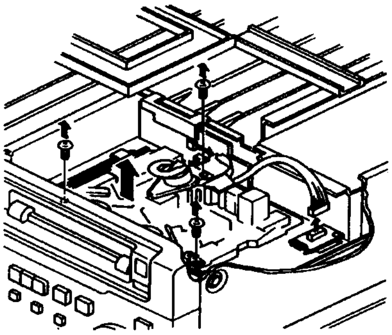


1-7. Removal of Mechanism Unit

1. Remove the front loading unit.
2. Remove the connector P1 and P2 which are connected to mech interface at VTR bottom.

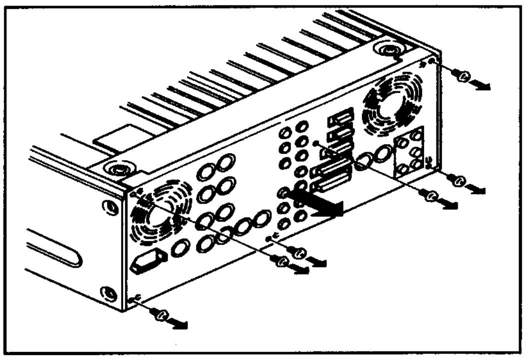


Remove the A/C Head cable from the intermediate point, and remove the P5003 and P5002 which are connected between the cylinder unit and Head Buffer board. Then remove the 3 screws and remove the mechanism unit.

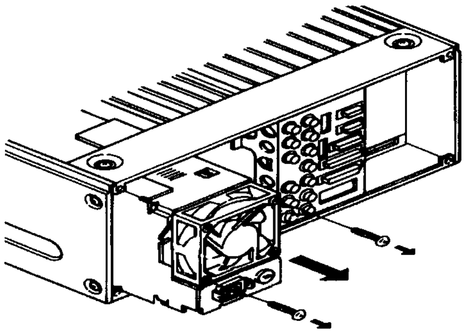


1-8. Removal of Fan Motor

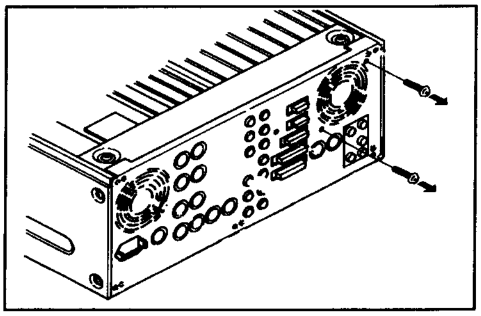
1. Remove the Rear Jack by removing 7 screws.



2. Remove 2 screws and Power 2 connector P14 then remove the fan motor.



3. Remove 2 screws and mother board connector P32, then remove fan motor.



2. Maintenance Parts Chart

	Name	Part No.	Hours of Use (unit hours)					
			2,000	4,000	6,000	8,000	10,000	12,000
	Tape Path Cleaning	—	"△" Clean the Tape Path at each 500 hours					
1	Cylinder Unit	VEG1503	●	●	●	●	●	◎
2	Pinch Arm Unit	VXL2835	●■	●■	●■	●■	●■	◎
3	Cleaning Arm Unit	VXL2748	●	●	●	●	●	◎
4	S Reel Motor A Unit	VEM0686		●		●		◎
5	T Reel Motor A Unit	VEM0687		●		●		◎
6	Thrust Screw Unit	VXQ0556		●▲		●▲		◎
7	S Loading Arm Unit	VXL2812			●			◎
8	T1 Boat Unit A	VXA6379			●			◎
9	S Post Base A Unit	VXA6052			●			◎
10	Tension Arm S Unit	VXL2832			●			◎
11	Cassette Compartment	VXA6070						◎
12	Mech. Chassis Unit	VXY1418Z						●
13	Fan Motor	VRF0208	Replace the Fan Motor at each 10,000 hours ***Operation Time***.					
14	A/C Head	VED0419						◎
15	Loading Motor (1) A Unit	VEM0645						◎
16	Reel Drive Motor Unit	VEM0585						◎
17	Mode Switch Unit	VES0814						◎
18	Pinch Solenoid	VSJ0227						◎
19	S Brake Solenoid	VSJ0216						◎
20	T Brake Solenoid	VSJ0216						◎
21	Thinner Tape Detection Switch	VXA6119						◎
22	Cleaner Solenoid	VSJ0226						◎
23	Main Cam Gear	VDG1168						◎
24	Brake Solenoid (M Stopper)	VSJ0216						◎
25	Slot In Motor	VXA5597						◎

Symbol	Maintenance	Remark
●	Replacement	
■	Greasing	Wipe the old grease and apply new grease.
△	Cleaning	This mark means cleaning is necessary.
▲	Lubrication	The lubrication is necessary (VFK0906)
◎	Replacement	These parts are included in Mech Chassis Unit.

Note: Hours of Use are based on the head rotation hours.

Hours of Use are recommendation. It may depend on temperature, humidity or dust.

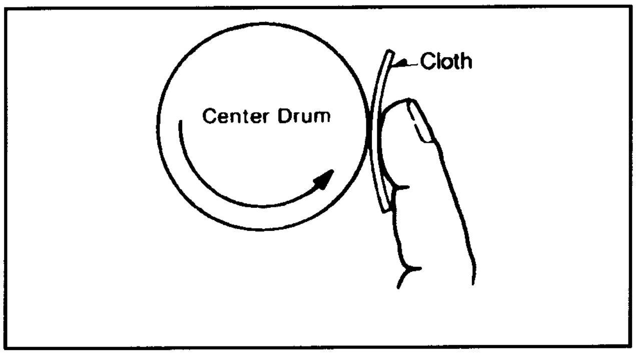
Hours of Use are listed as the reference of maintenance. They do not mean guaranteed hours.

3. Cleaning Procedures

Note: Turns power off during cleaning.
Make sure the power is OFF before cleaning.
Use ethanol (more than 99% purity) as cleaning liquid.

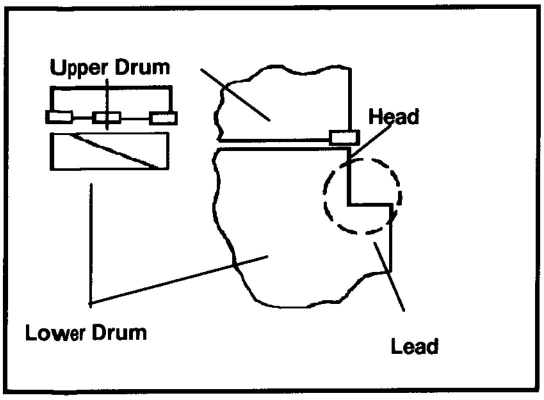
3-1. Cleaning of Head Chips: (Daily)

Clean heads by applying even pressure and rotating cylinder a few times. Never wipe in up and down motion. Never touch a cylinder by naked hand. First wipe with a cloth soaked by cleaning liquid. Then wipe with dry cloth.



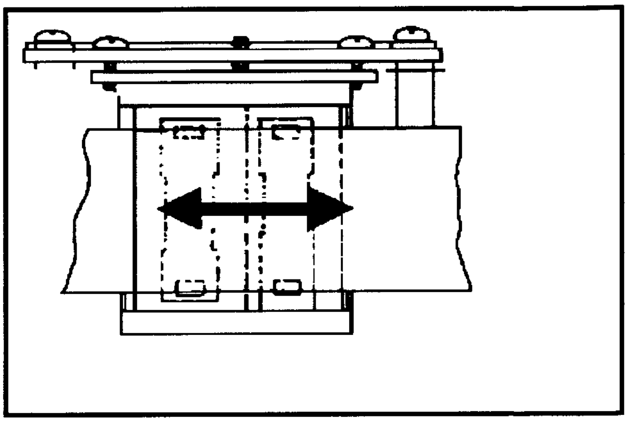
3-2. Cleaning of Drum Lead: (Weekly)

Be careful not to touch a head chip. Clean the drum lead with a pick.



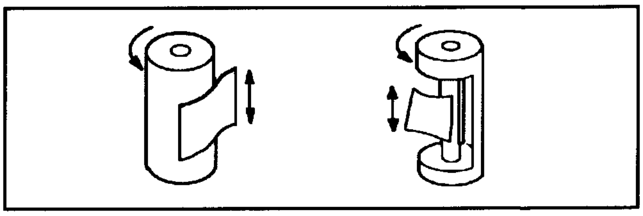
3-3. Cleaning of A/C Head: (Weekly)

Wipe the A/C head with a cloth soaked by cleaning liquid. Wipe again with a dry cloth.



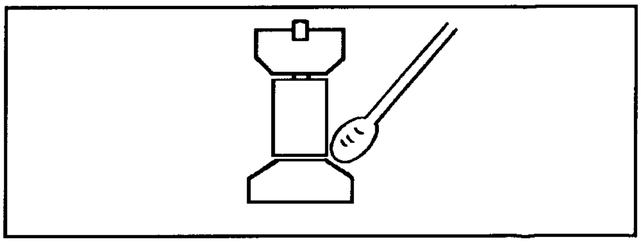
3-4. Cleaning of Pinch Roller and Capstan: (Weekly)

Wipe the Pinch Roller and Capstan with a cloth soaked by cleaning liquid.



3-5. Cleaning of Post: (Weekly)

Wind a cloth on a pick. Wipe each post dry with that pick . Wipe again with a dry cloth. For metal posts wipe with cleaning liquid. Then wipe dry again.



Note: Use the clean cloth for cleaning purpose. Do not use any dirty cloth.

SECTION 3

MECHANISM ADJUSTMENTS

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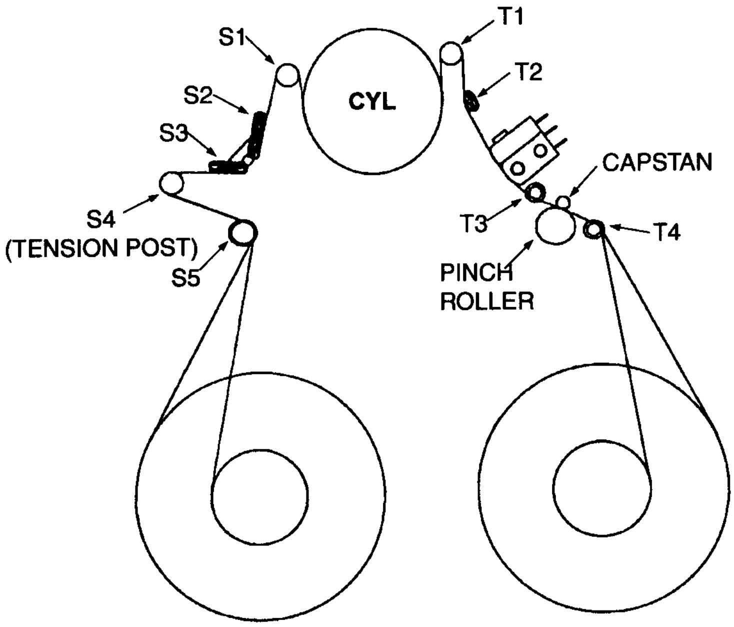
1. Mechanism Adjustment

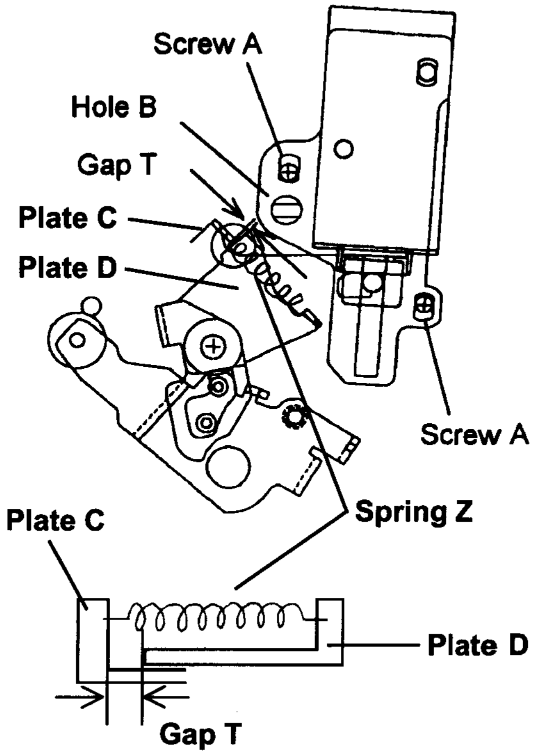
1-1. Name of tape transportation

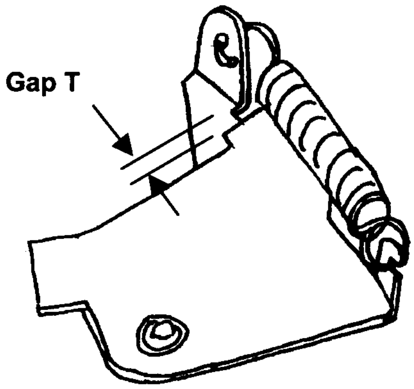

S1
S2
S3
S4
(TENSION POST)
S5
CYL
T1
T2
CAPSTAN
T3
T4
PINCH ROLLER

1-2. Pinch Solenoid Position Adjustment

Specification	T = 0.3mm
Test Point	Space at T portion
Adjustment	A、B
Mode	EJECT (Power Off)
Tool	VFK0357 (Eccentric Driver)

1. Turns power off.
2. Close the pinch roller to the capstan shaft.
3. Press the pinch solenoid by your hand and touch the pinch roller with the capstan shaft.
4. Loosen the 2 screws A and adjust B portion so that the Gap T is in the specification by VFK0357.
5. Tighten the 2 screws A after adjustment.

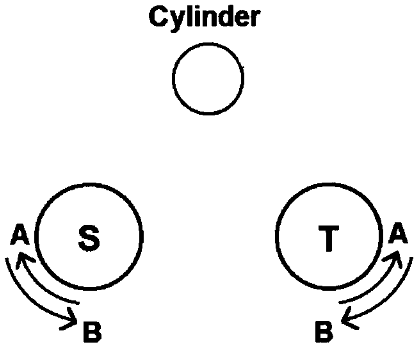

Screw A
Hole B
Gap T
Plate C
Plate D
Screw A
Spring Z
Plate C
Plate D
Gap T



1-3. Main Brake Torque Confirmation

Specification	A: more than 80g B: more than 15g
Test Point	S Reel, T Reel
Mode	EJECT (Power OFF)
Tool	VFK71(150g)、VFK1191(45g)、VFK1152

1. Remove the cassette compartment.
2. Attach the Adaptor (VKK1152) with the torque meter.
3. Attach the torque meter with the S Reel table and rotate it to A direction (CW).
4. Confirm the reel torque is in the specification when the brake is released and the reel starts rotation.
5. Confirm T Reel torque in the same way with S Reel torque.
6. Remove the Adaptor (VKK1152) and attach the adaptor with the torque meter (VFK1191).
7. Attach the torque meter with the S Reel table and rotate it to B direction (CCW).
8. Confirm the reel torque is in the specification when the brake is released and the reel starts rotation.
9. Confirm T Reel torque in the same way with S Reel torque.



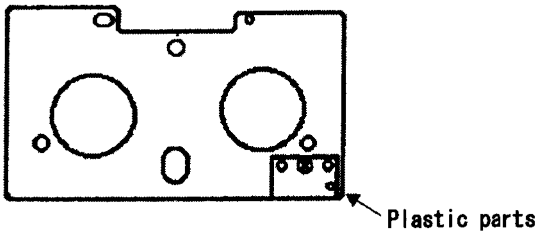
1-4. Post Height Pre-Adjustment

Mode	EJECT (Power OFF)
Tool	VFK1153, VFK1154 (flange tool)

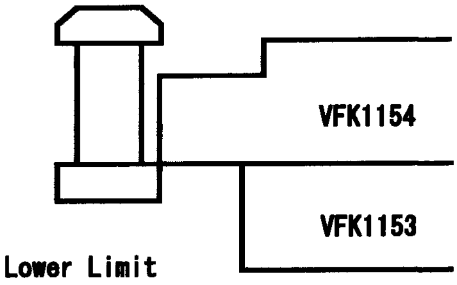
1. Insert M casette tape, and eject the tape.
2. Turns power off and remove the cassette compartment and set mechanism plate (VFK153).
3. Place the flange tool (VFK1154) as shown in the figure and adjust the post height.
4. Adjust the S4 and T5 post height by VFK1149 and adjust T3 and T4 by VFK1151.

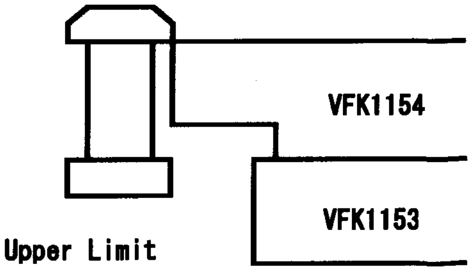
Name	Limit	Post Driver
S5 Post	Note 1	VFK1149
S4 Post	Note 1	VFK1149
T3 Post	Lower Limit	VFK1151(2.5mm Nut Box)
T4 Post	Lower Limit	VFK1151 (2.5mm Nut Box)

Note 1: Rotate CCW one turn from the lower limit.

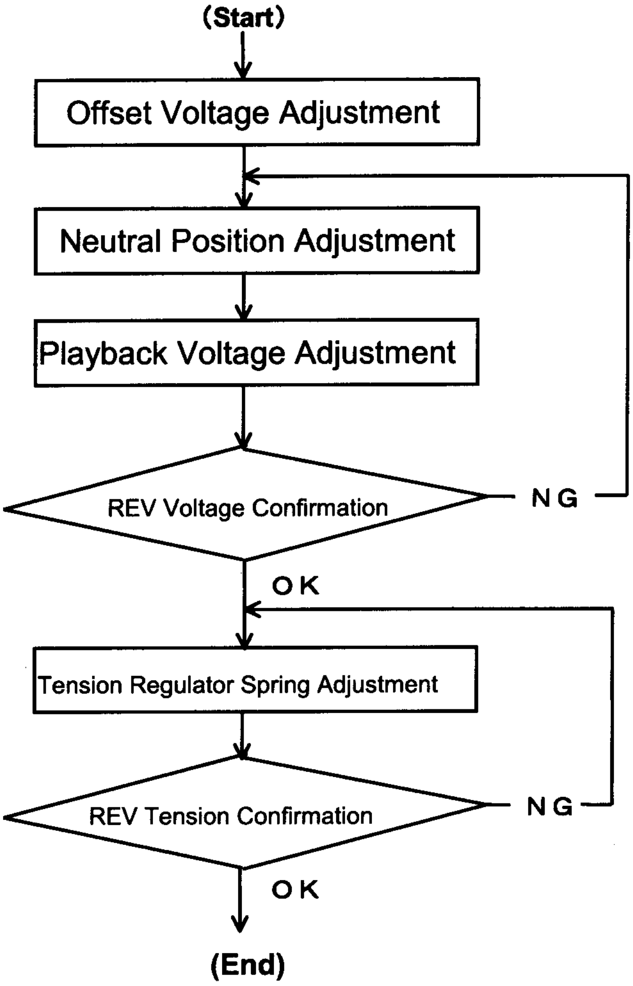

Plastic parts

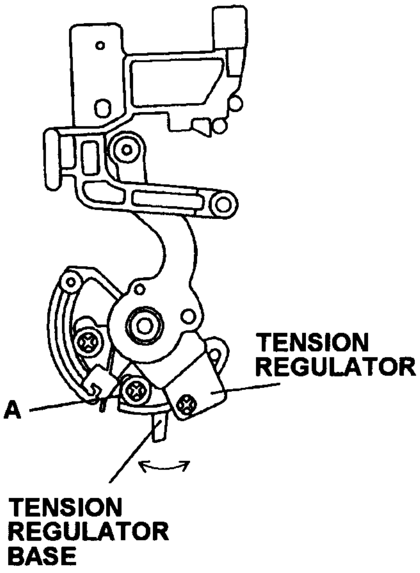
Set mechanism plate with thinner tape detection switch pushing


VFK1154
VFK1153
Lower Limit


VFK1154
VFK1153
Upper Limit

1-5. Tension Arm Adjustment Procedures

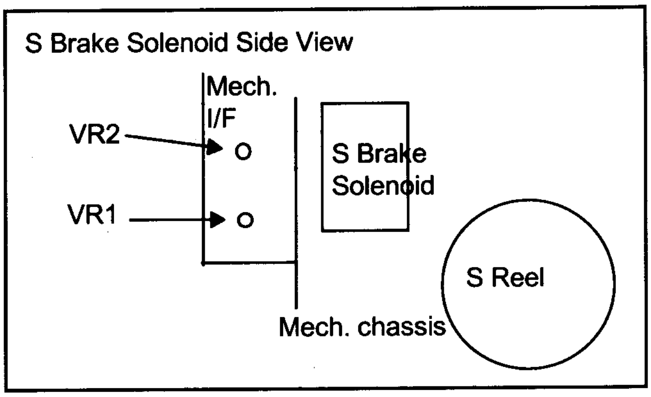

(Start)
Offset Voltage Adjustment
Neutral Position Adjustment
Playback Voltage Adjustment
REV Voltage Confirmation
N G
O K
Tension Regulator Spring Adjustment
REV Tension Confirmation
N G
O K
(End)


TENSION REGULATOR
A
TENSION REGULATOR BASE

1-6.Tension Arm Offset Voltage Adjustment

Board	SERVO
Specification	2.5 ± 0.05V
Test Point	TP201(SERVO:F1)
Adjustment	VR1(Mech. IF)
Mode	EJECT
M. EQ.	Digital Volt Meter

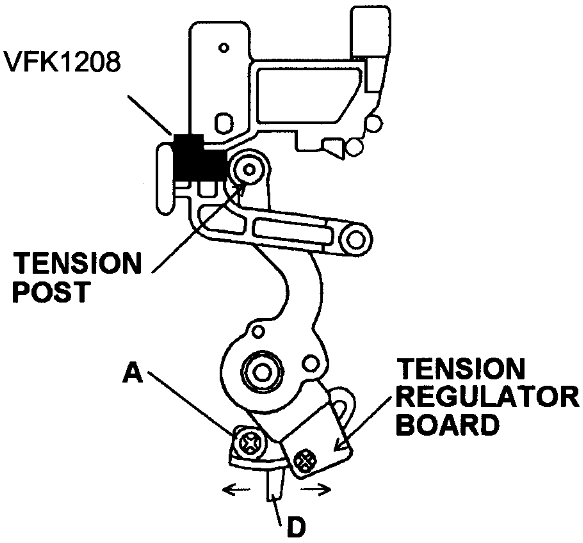
1. Set the VTR in EJECT mode and confirm the voltage at TP201 is in the specification.
2. If it is not, adjust VR1 on the Mech. I/F Board so that the voltage is in the specification.


S Brake Solenoid Side View
Mech. I/F
VR2
VR1
S Brake Solenoid
S Reel
Mech. chassis

1-7. Neutral Position Adjustment

Board	SERVO
Specification	2.5 ± 0.1V
Test Point	TP201(SERVO:F1)
Adjustment	Tension Regulator Board Base Position
Mode	STOP
M. EQ.	Digital Volt Meter VFK1208(Black, with a hole)

1. Remove 4 screws on the Front Loading Unit and Remove it, then set the VFK1208 (Black , with a hole).
2. To set the VTR in no tape loading mode, set the DIP SW1 at the rear panel ON to open the service menu. Then select "T REEL TRQ" and press JOG/SHTL key. During adjustment JOG/SHTL key must be hold. Do not touch the Magnetised screw driver to the Reel FG magnet.
3. Adjust the Tension Regulator Board Base Position so that the voltage at TP201 is in the specification in STOP mode. To adjust the Tension Regulator Board Base Position, loosen the screw A and move the knob D portion by a screw driver without magnetization and tighten the screw A.

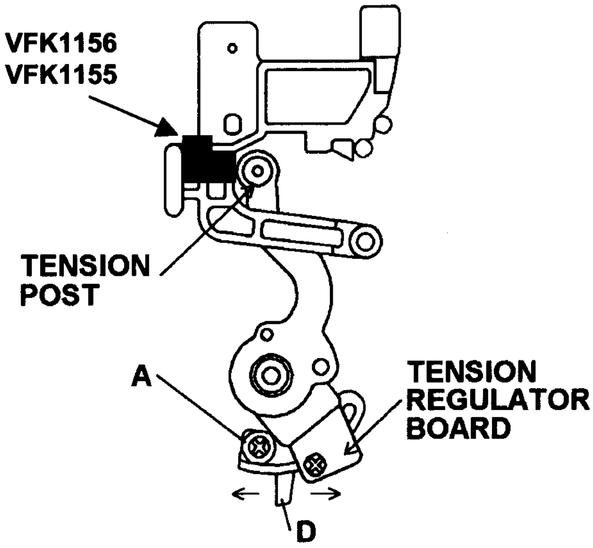


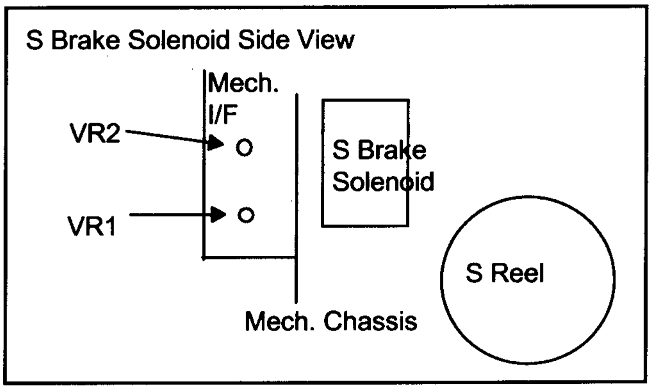
Adjust A and D at the same time.

1-8. Tension Arm PLAY & REV Voltage Confirmation and Adjustment

Board	SERVO
Specification	(PLAY)3.8 ± 0.05V (REV) 1.2 ± 0.3V
Test Point	TP201(SERVO:F1)
Adjustment	VR2
Mode	STOP
M. EQ.	Digital Volt Meter. VFK1156(Black: PLAY) VFK1155(White: REV)

1. Remove 4 Screws on the Front Loading Unit and Remove it, then set the VFK1156 (Black).
2. To set the VTR in no tape loading mode, set the DIP SW1 on the rear of the front panel to ON to open the service menu. Then select " T REEL TRQ" and press JOG/SHTL key. During adjustment JOG/SHTL key must be hold. Do not touch the Magnetised screw driver to the Reel FG magnet.
3. Confirm the voltage at TP201 is in the specification.
4. If it is not, adjust VR2(Mech. I/F) so that the voltage is in the specification.
5. Then set VFK1155.
6. If it is not, adjust "Tension Arm Neutral Position Adjustment" again.
   If it is out of specification after this adjustment, replace the tension post unit.

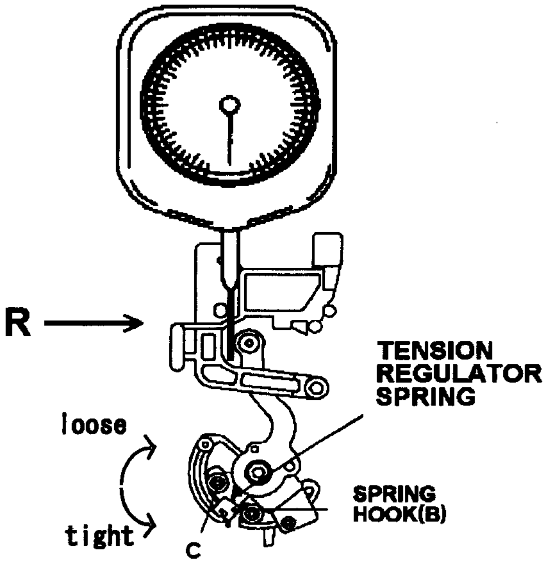

VFK1156
VFK1155
TENSION POST
A
TENSION REGULATOR BOARD
D


S Brake Solenoid Side View
Mech. I/F
VR2
VR1
S Brake Solenoid
S Reel
Mech. Chassis

1-9. Tension Regulator Spring Adjustment

Board	SERVO
Specification	11 ± 1gf
Test Point	TP201(SERVO:F1)
Adjustment	Tension Regulator Spring Hook (B)
Mode	STOP
M. EQ.	Digital Volt Meter. VFK1188(30g Dial Tension Meter)

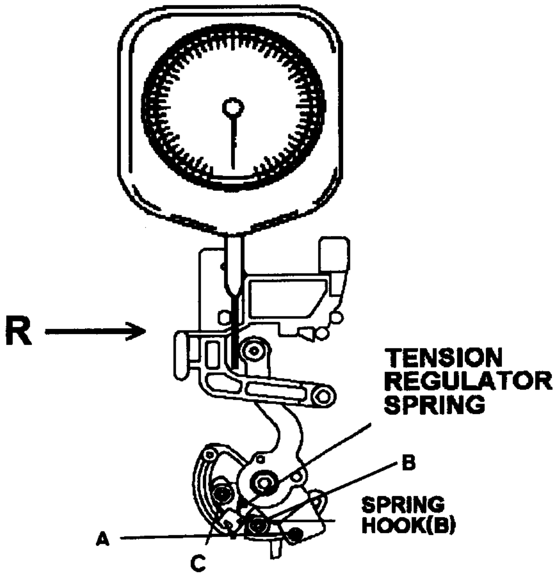
1. Set the VTR in no tape loading.
2. Press the tension post by the Dial Tension Meter to R direction.
3. Read the Dial Tension Meter when the voltage is 3.8 V (PLAY position) at TP201, and adjust the Tension Regulator Spring Hook (B).
4. To adjust the Tension Regulator Spring Hook (B) position, loosen the Tension Regulator Spring position and after adjustment tighten the screw C.



1-10. REV Tension Confirmation

Board	SERVO
Specification	18 ± 2gf
Test Point	TP201
Mode	STOP
M. EQ.	Digital Volt meter VFK1188(30g Dial Tension Gauge)

1. Place the VTR into no tape loading.
2. Press the tension post by the Dial Tension Meter to R direction in STOP mode.
3. Read the Dial Tension Meter when the voltage is 1.2 V (REV position) at TP201, and adjust the Tension Regulator Adjustment again.
4. Grew the screw A, B and C after Tension Arm adjustment. The grew quantity at B is half of A and C.

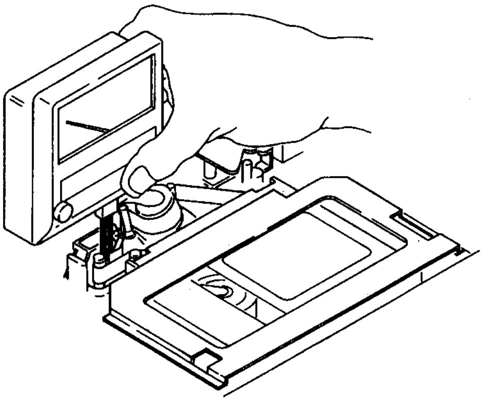


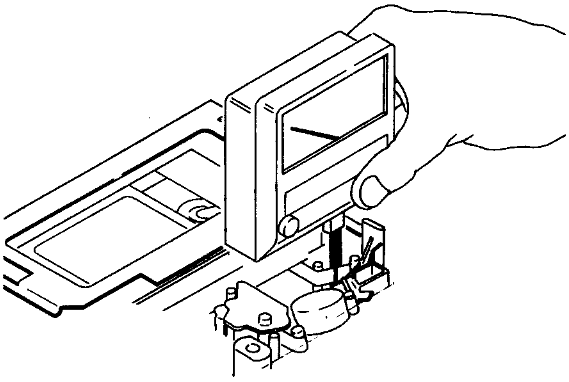
1-11. Tension Confirmation

Specification	(PLAY)6.0 ± 1gf (REV) 9.0 ± 2gf
Mode	PLAY、REV×1
Tape	Beginning of 63min.M Cassette
Tool	VFK1145(Tension Meter)

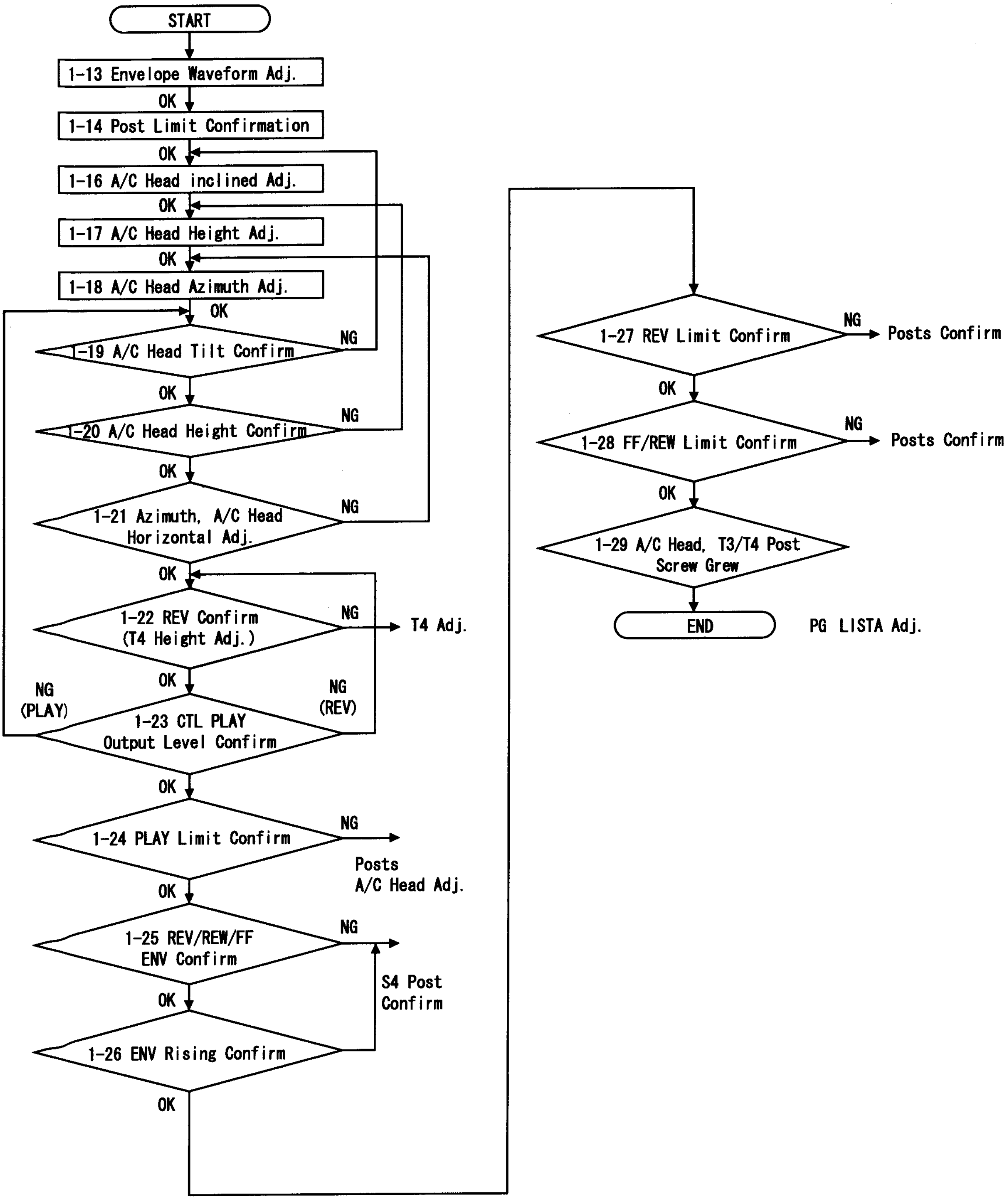
1. Playback the beginning of 63min. M cassette.
2. Set a tension meter between S3 and S4 post.
3. Confirm the tension is in the specification.
4. Set the VTR is in REV mode.
5. Set the tension meter between S4 and S5 posts.
6. Confirm the tension is in the specification.

Do not damage a tape during measurement.



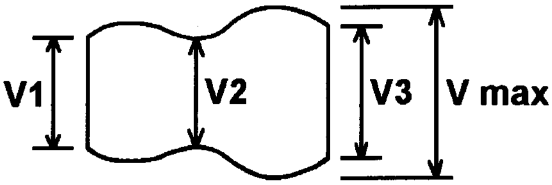


1-12. Tape Pass Adjustment Procedures


START
1-13 Envelope Waveform Adj.
OK
1-14 Post Limit Confirmation
OK
1-16 A/C Head inclined Adj.
OK
1-17 A/C Head Height Adj.
OK
1-18 A/C Head Azimuth Adj.
OK
1-19 A/C Head Tilt Confirm
NG
OK
1-20 A/C Head Height Confirm
NG
OK
1-21 Azimuth, A/C Head Horizontal Adj.
NG
OK
1-22 REV Confirm (T4 Height Adj.)
NG
T4 Adj.
OK
NG (PLAY)
NG (REV)
1-23 CTL PLAY Output Level Confirm
OK
1-24 PLAY Limit Confirm
NG
Posts A/C Head Adj.
OK
1-25 REV/REW/FF ENV Confirm
NG
S4 Post Confirm
OK
1-26 ENV Rising Confirm
OK
1-27 REV Limit Confirm
NG
Posts Confirm
OK
1-28 FF/REW Limit Confirm
NG
Posts Confirm
OK
1-29 A/C Head, T3/T4 Post Screw Grew
END
PG LISTA Adj.

1-13. ENV waveform Adjustment

Specification	V1/Vmax、V2/Vmax、V3/Vmax ≧ 0.8
Test Point	TP722(F1) for Trigger TP201 R/P ENV L:H3/ R:H4
Adjustment	S1、T1PostHeight
Mode	PLAY(ATF)
Tape	VFM3580KM(No.1)
M. EQ.	Oscilloscope
Tool	VFK1149(Post Driver)



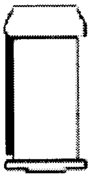
1. Playback the color bar portion of the alignment tape.
2. Adjust S1 and T1 post height so that the R/P envelope output is in the specification.
3. When the S1 and T1 posts are adjusted, first raise the post height and make small the entrance and exit side of the envelope, then down the post until envelope becomes flat.
4. Adjust T1 post and makes exit side of the envelope flat then adjust S1 post.
5. After the adjustment, unload the tape then loading the tape. Confirm the waveform style.

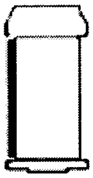
1-14. Post Limit Confirmation (Play)

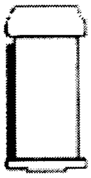
Specification	No curl at the Tape edge All Post Limit
Mode	PLAY
Tape	Signal recorded Tape
Tool	VFK1149(Post Driver) VFK1151(Nut Driver)

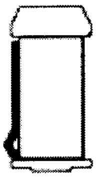
1. Confirm the each Post Limit is as shown in figure, if it is not adjust the post height.
2. Confirm that there is no tape problem as D、E、F in the figure.

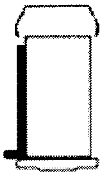
Post	Limit	Adjustment
S5	Free or Lower Limit	S5 Post Height
S4	Lower Limit	S4 Post Height
S1	Upper Limit	Linearity Coarse
T1	Upper Limit	Linearity Coarse
T3	Lower Limit	T3 Post Height
T4	Free or Lower Limit	T4 Post Height

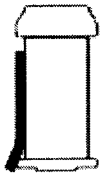

A Upper


B Free


C Lower


D Curl


E Bend

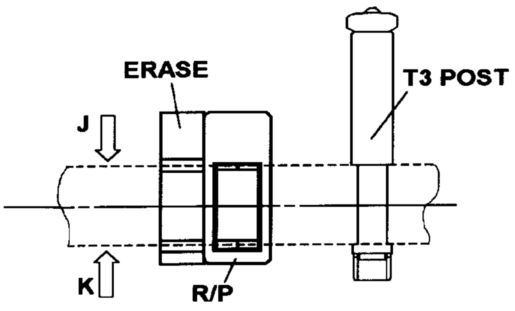

F Drop

1-15. A/C Head ADJUSTMENT Method (summary)

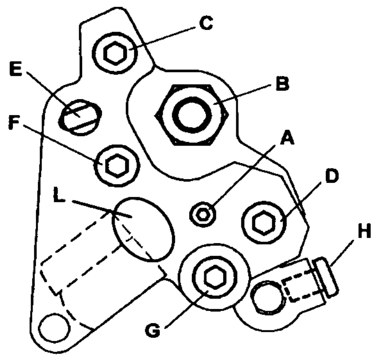
Item	Screw	Adjustment	Torque
Tilt Adjustment	A	CW --- Decrease CUE Level CCW --- Increase CUE Level	(Adjustment)
Height Adjustment	B	CW --- If the level is increased at “k”. CCW --- If the level is increased at “j”.	(Adjustment)
Azimuth Adjustment	F	Adjust phase by the screw F.	(Adjustment)
A/C Head Horizontal Position Adj.	C D	Adjust A/C Head Horizontal Position by VFK0357 (Eccentric Driver) at long hole E, then tighten the screw C and D.	2.5 Kgf · cm
Tilt	G	Adjust by tightening the screw except tilt and azimuth adjustment.	1.0 Kgf · cm
Height Fix	H	After the Height Adjustment, tighten screw H to fix the A/C Head Height.	

Screw	Tool
A	VFK1178 (0.89 mm Nut Driver)
B	VFK1150 (5.5 mm Nut Driver)
F	VFK1148 (1.5 mm Nut Driver)
C, D, G	VFK1209 (Torque Driver) VFK0912 (1.5 mm Hex Driver Bit)
H	VFK1190 (1.5 mm L type Hex Wrench)

1 .Each Adjustment must be done keeping the screw G tighten.
2 .When tilt is adjusted, confirm the screw A is tighten. (A/C Head must be touch with the fix plate.)
3 .When tilt is adjusted confirm that there is no tape damage at T3 Post.
4 .When Height is Adjusted, loosen the screw H. After the adjustment tighten screw H.
5 .When the each Adjustment is done, each adjustment screw must be rotated CW.
And hit slightly the L part to remove the mechanical distortion.
6 .Adjust or confirm alternately each Adjustment and Envelope Output waveform Adjustment



A/C HEAD HEIGHT



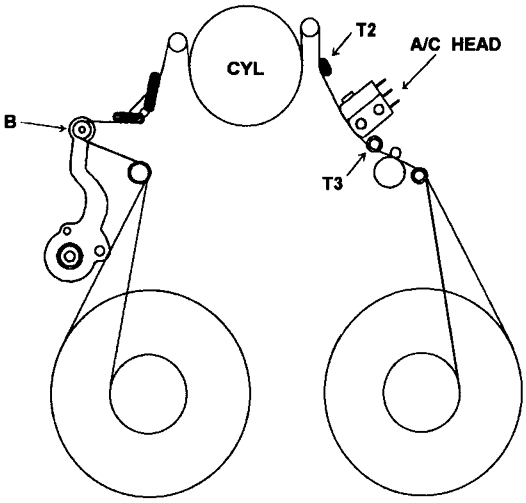
1-16. A/C Head Tilt Adjustment

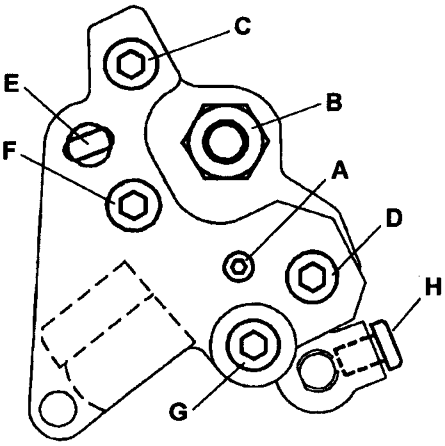
Specification	No curling and bending at tape edge. T3 Post Lower Limit
Adjustment	Screw A, G (A/C Head)
Mode	PLAY
Tape	Signal recoreded Tape
Tool	VFK1148、VFK1178 (Hex Wrench)

1. Adjust A/C Head Tilt by screw A so that the Tape is at lower limit at T3 Post.
2. For this Adjustment, loosen screw G and make tape curling at T3 lower flange then gradually tighten screw G to make the tape flat. The screw G tightening torque is 1.0 Kgf · cm.

(Reference)

1. Screw A CW: Tape up
   Screw A CCW: Tape down
2. It is necessary to tighten the each adjustment screw when the adjustment is completed.
3. Confirm and adjust alternately this adjustment and A/C Head each adjustment (Azimuth and Height).



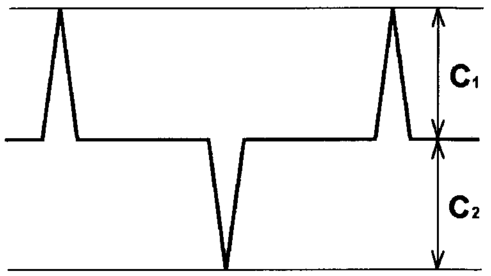


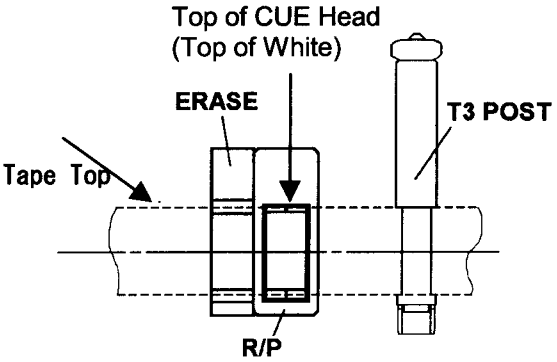
1-17. A/C Head Height Adjustment

Board	SERVO
Specification	CTL Max (C1,C2=1.8V or more)
Test Point	TP30(SERVO:F1)
Adjustment	Screw B、H (A/C Head)
Mode	PLAY
Tape	VFM3580KM (No.1)
M. EQ.	Oscilloscope
Tool	VFK1150(Nut Driver) VFK1190(Hex Wrench)

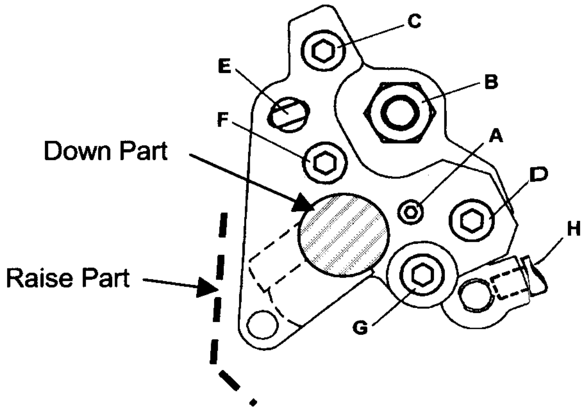
1. Connect a scope to TP30 on Servo (F1) board to observe CTL level.
2. Confirm that CTL level is decreased when A/C head is up and down at the point shown in the figure. If the CTL level is increased adjust nut B so that the CTL level is max.
3. Tighten screw H with 2.0 Kgf · cm torque then confirm the CTL level again.

(Reference)
1. Confirm and adjust alternately this adjustment and A/C Head each adjustment (Azimuth and Height).



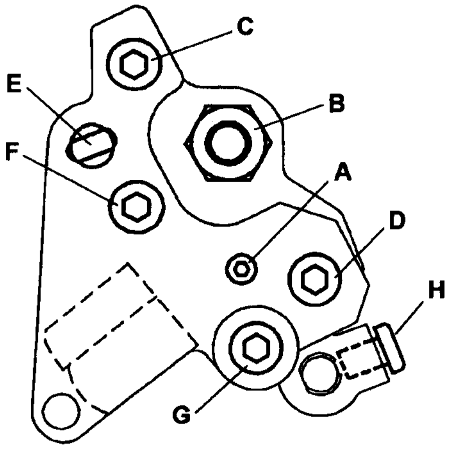

Top of CUE Head
(Top of White)
ERASE
T3 POST
Tape Top
R/P

A/C HEAD HEIGHT


C
E
B
F
A
Down Part
D
H
Raise Part
G

1-18. A/C Head Azimuth Adjustment

Board	SERVO
Specification	C1、C2 : Max
Test Point	TP30 (SERVO:F1)
Adjustment	Screw F (A/C Head)
Mode	PLAY
Tape	VFM3580KM (No.1)
M. EQ.	Oscilloscope
Tool	VFK1148 (Hex Wrench) VFK1209 (Torque Driver)



1. Connect a scope to TP30 on Servo (F1) board. Then adjust A/C Head Azimuth by the screw F so that the CTL level is max.
2. For this Adjustment, loosen screw G and adjust screw F then tighten screw G with 1.0Kgf · cm torque.

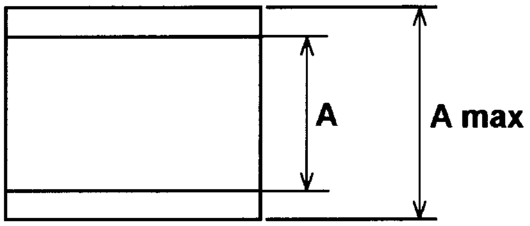
(Reference)

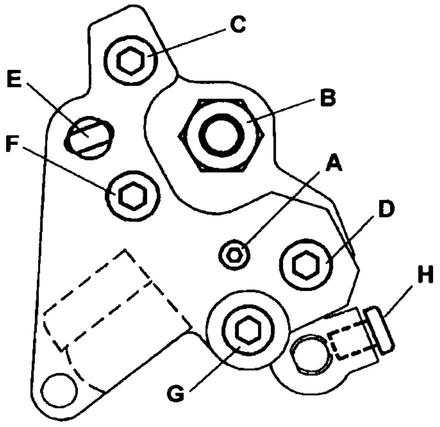
Confirm and adjust alternately this adjustment and A/C Head each adjustment (Azimuth and Height).

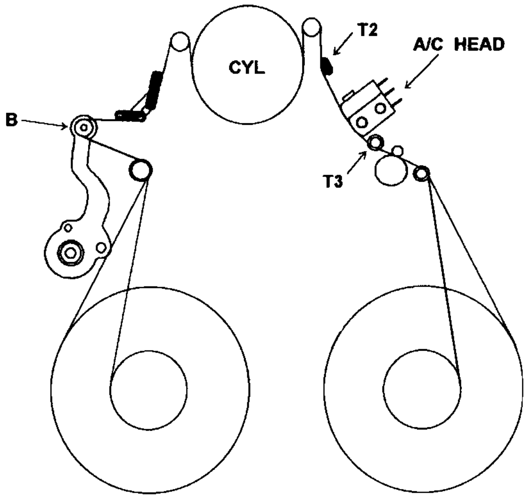
1-19. A/C Head Tilt Confirmation

Specification	A/Amax = 0.8 or more
Test Point	TP101 (CUE:H1)
Adjustment	Screw A, G (A/C Head)
Mode	PLAY
Tape	VFM3580KM (No.1)
M. EQ.	Oscilloscope
Tool	VFK1178、VFK1148 (Hex Wrench) VFK1209 (Torque Driver)

1. Playback the alignment tape CUE audio 6 kHz portion.
2. Confirm that screw G and H are tighten.
3. Connect a scope to TP101 and move the tension arm to B direction until T2 post is not moved, then confirm the output level variation is in the specification.
4. If it is not loosen screw G and adjust screw A then tighten screw G with 1.0 Kgf · cm torque.
5. It is necessary to complete the adjustment with screw A tighten and confirm that screw A is not loosen.
6. If this is adjusted confirm the Play Limit Confirmation (PLAY).



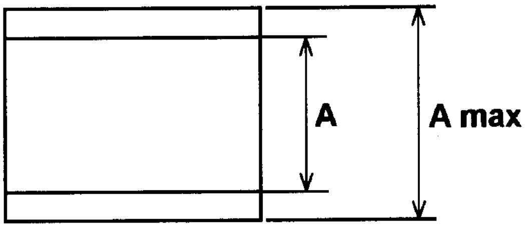


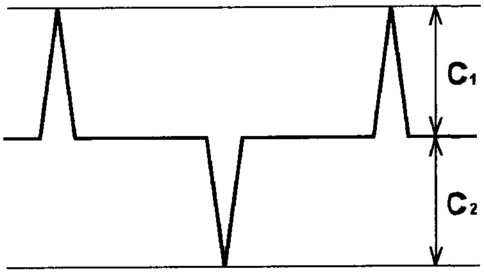


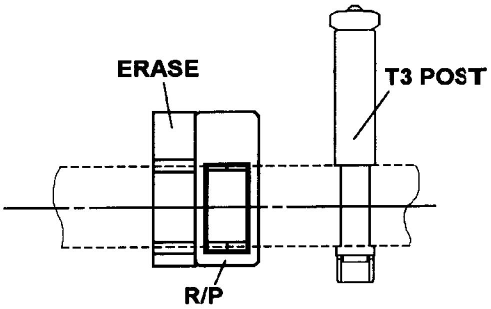
1-20. A/C Head Height Confirmation

Specification	A=0.95 X Amax or more C1, C2 = 1.8V or more
Test Point	TP101 CUE AUDIO(CUE:H1) TP30 CTL(SERVO:F1)
Adjustment	Screw B, H (A/C Head)
Mode	PLAY
Tape	VFM3580KM (No.1)
M. EQ.	Oscilloscope
Tool	VFK1150、VFK1190(Hex Wrench)

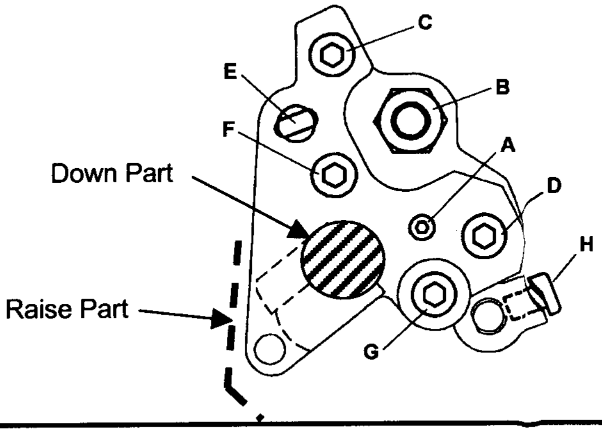
1. Playback the alignment tape CUE audio 6 kHz portion.
2. Connect a scope to TP101 and raise the A/C head or push down it to confirm the CTL level is not increased.
3. If it is increased, slightly adjust the "A/C Head Height Adjustment" and confirm the CTL level is correct.
4. If A/C Head Height is changed the azimuth is changed also. Therefore A/C Head azimuth must be adjusted and confirm alternately.
5. When A/C Head Height is fixed, tilt is changed by tightening screw H and the height is changed. Therefore Height confirmation must be done after tightening screw H.







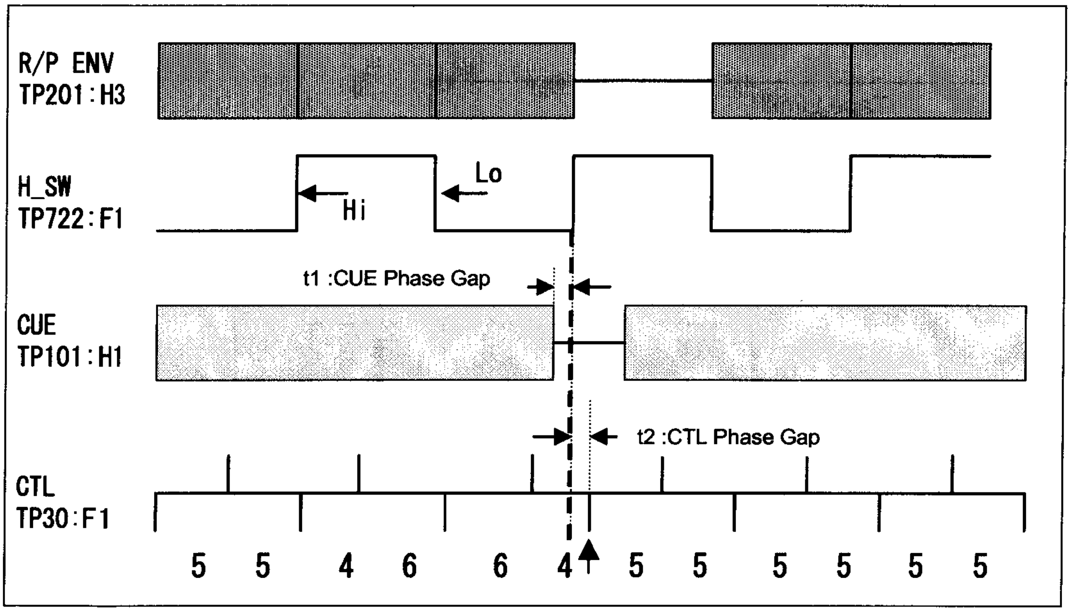
A/C HEAD HEIGHT

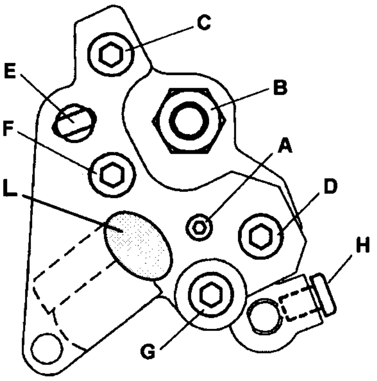


1-21. A/C Head Azimuth and Horizontal Position Adjustment

Specification	25MMode -250us≦t1、t2≦+250us 50MMode -125us≦t1、t2≦+125us	**Test Point**	TP201 R/P ENV L(RFEQ:H3) TP722 R/P HSW (SERVO:F1) TP101 CUE AUDIO (CUE:H1) TP30 CTL (SERVO:F1)
Adjustment	A/C Head	**M. EQ.**	Oscilloscope
Mode	Playback	**Tool**	VFK0357(Eccentric Driver)
Tape	VFM3582KM (A/C Head H. Position)		

1. Set the VTR in 25M Mode and playback an Alignment Tape (A/C Head H. Position).
2. Adjust Azimuth so that the CTL and CUE drop portion is match (Refer to Azimuth Adjustment).
3. Connect a scope CH1 to TP201 on H3 board and CH2 to TP722 on F1 board. Then find the R/P ENV lack portion, and remember the H_SW is High or Low at the portion. (H_SW High or Low is changed at each tape loading.)
4. Adjust A/C Head Horizontal Position so that the memorized H_SW and CTL trigger at the frame start is matched. The frame start CTL is located at the falling edge between 6:4 and 5:5 portion. To adjust the Horizontal position loosen screw C and D then adjust horizontal position by eccentric driver at hole E.
5. After adjustment, tighten the screws with 2.5kgf · cm torque and hit gently at L portion to remove the mechanical distortion. Confirm the above specification.
6. Set VTR into 50M PB Mode, and confirm the timing is in the specification. If it is not adjust this item again.





1-22. REV Confirmation and Adjustment (T4HeightAdjustment)

Specification	C1、C2≧Cp1、Cp2×0.75 Lower Limit at T3Post in REV	**Tape**	VFM3580KM (No.1)
Test Point	TP30 (SERVO:F1)	**M. EQ.**	Oscilloscope
Adjustment	T4 Post Height	**Tool**	Nut Driver
Mode	REV X 1		

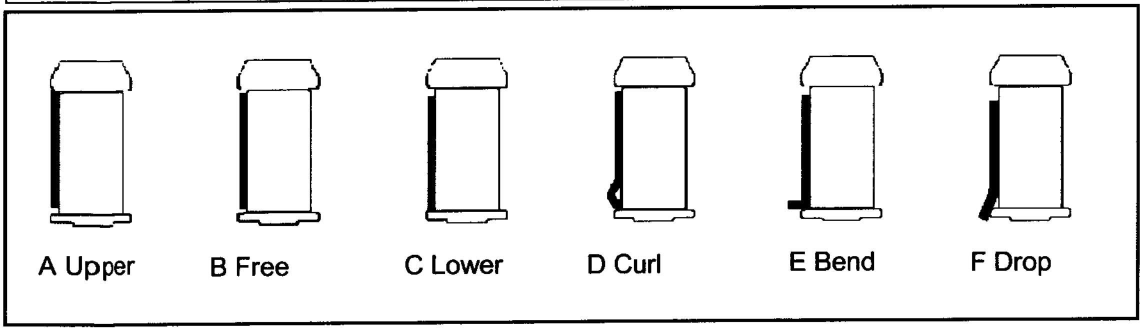
1. Run the Tape in REV x –1 mode, and confirm that the above specification is satisfied. If it is not, adjust the following items.
2. Rotate the T4 nut 45 degrees each and confirm the specification and repeat this adjustment until the specification is satisfied.
3. Specification: CTL level in REV x –1 speed is more than 75 % of Playback CTL level.
   Tape runs in lower limit at T3 Post, and tape has no curling and bending at T3, T4 upper and lower limit.
4. If the Specification is not satisfied, use height adjustment tool.

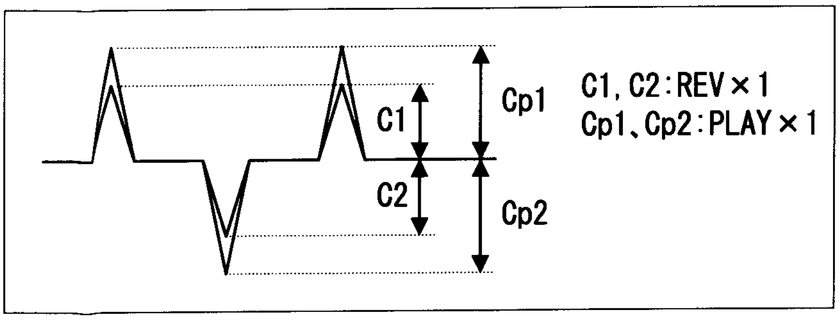
T4 Nut Adjustment Direction

T4 Nut Adjustment Direction	REV CTL Output	REV T3 Post Lower Limit
CW	Increase	More
CCW	Decrease	Less

Post Limit

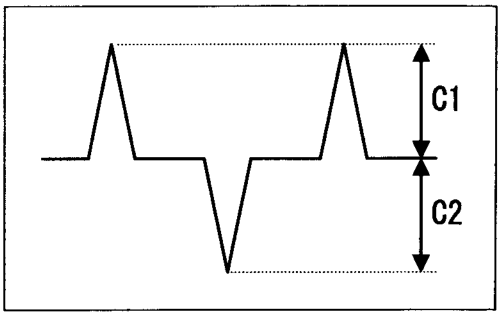
Post	Tape Limit					
	A	B	C	D	E	F
T3Post	NG	NG	OK	NG	NG	NG
T4Post	OK	OK	OK	NG	NG	NG





1-23. CTL PLAY Output Level Confirmation

Specification	Refer to Figure
Test Point	TP30 (SERVO:F1)
Mode	PLAY
Tape	VFM3580KM(No.1)
M. EQ.	Oscilloscope



A/C Head must be fixed.

1. Set the VTR to 25M Mode, and playback an Alignment Tape. Then observe the CTL.
2. The CTL level is in the specifications in the following table.

CTL Output Level C1,C2		
PLAY	REV×1	REV×0.2
C1,C2≧1.8V	C1,C2≧1.4V	C1,C2≧1.2V

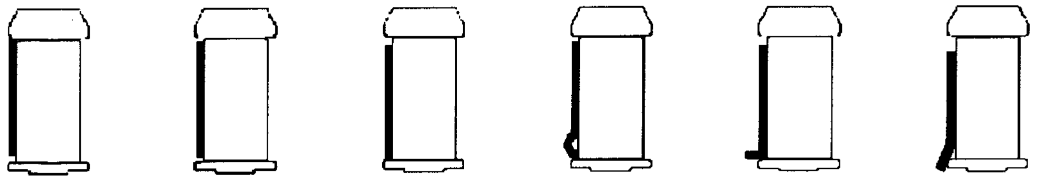
1. If the PLAY Output Level is NG. Then confirm the A/C Head Height.
2. If the REV Output Level is NG. Then confirm the T4 Post Height.

1-24. PLAY Mode Limit Confirmation

Specification	Confirm the each Post Limit is in the following table.
Mode	PLAY
Tape	M Cassette (MP Tape) Tape begin / Tape end

Post	Tape Limit (Refer to Figure)						Adjustment Point	
	A	B	C	D	E	F		
S5 Post	NG	OK	OK	NG	NG	NG	S4, S5Post	Post Height Pre-Adj.
(S4) Tension Post	NG	NG	OK	NG	NG	NG		
S1 Post	OK	NG	NG	NG	NG	NG	S1Post	Envelope waveform Adj.
T1 Post	OK	NG	NG	NG	NG	NG	T1Post	Envelope waveform Adj.
T3 Post	NG	NG	OK	NG	NG	NG	A/C Head Tilt	A/C Head Tilt Adj.
T4 Post	NG	OK	OK	NG	NG	NG	T4 Post	Post Height Pre-Adj.

1. Playback a Tape, and confirm the tape limit at each post is as shown in the above table.
2. If it is not adjust each item according with the Adjustment Point in the above table.



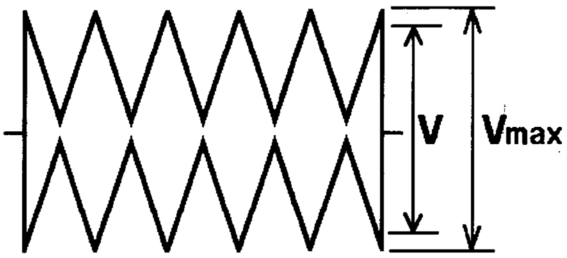
A Upper   B Free   C Lower   D Curl   E Bend   F Drop

1-25. REV/REW/FF Envelope Confirmation

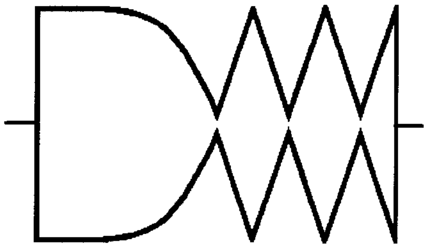
Specification	Refer to Figure
Test Point	TP201 ENV (RFEQ:H3)
Mode	REV, REW, FF
Tape	VFM3580KM (No.1)
M. EQ.	Oscilloscope

1. Place the VTR in REV, REW, FF and confirm that the Waveform is the same diamond style.

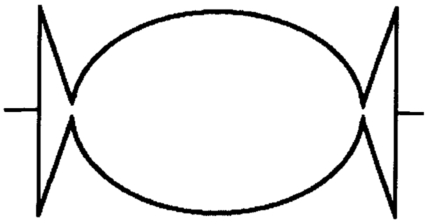
2. Peak level V is always in the following specification.
   V/Vmax ≧ 0.9
3. If it is not confirm the S4 Post Height.



OK



NG

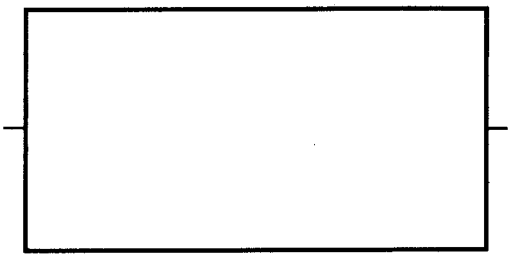


1-26. Envelope Confirmation

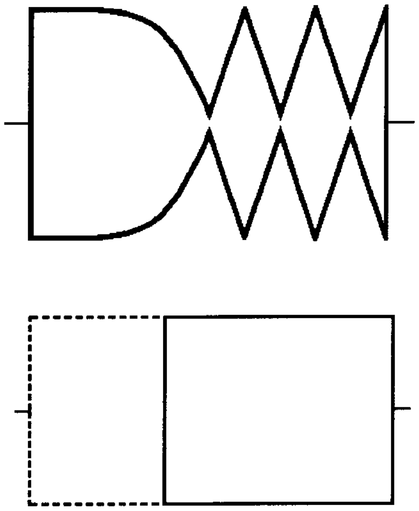
Test Point	TP201 ENV (RFEQ:H3)
Mode	REW/REV to PLAY Loading completion to PLAY FF to PLAY
Tape	L cassette (123 min pre-recorded) Tape begin
M. EQ.	Oscilloscope

This Adjustment must be done after " Envelope waveform Adjustment".

1. Confirm that the envelope waveform becomes stable immediately in the following transition mode, REW to PLAY, REV to PLAY, FF to PLAY, Loading completion to PLAY.
2. If it is not, confirm S4 Post Height.



O K



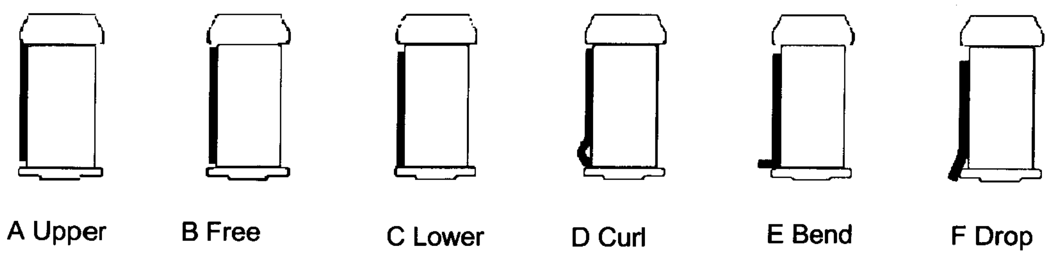
N G

1-27. REV Limit Confirmation

Specification	Confirm the Post Limit is as shown in the following table.
Mode	REV
Work Tape	M Cassette (MP Tape) Tape begin and Tape end

Post	Tape Limit (Refer to Figure)					
	A	B	C	D	E	F
S5 Post	OK	OK	OK	NG	NG	NG
Tension Post	NG	OK	OK	NG	NG	NG
S1 Post	OK	NG	NG	NG	NG	NG
T1 Post	OK	OK	OK	NG	NG	NG
T3 Post	NG	NG	OK	NG	NG	NG
T4 Post	NG	NG	OK	NG	NG	NG

1. Run a tape in Reverse mode and confirm that the tape limit is as shown in the above table.
2. This confirmation is done after each adjustment.

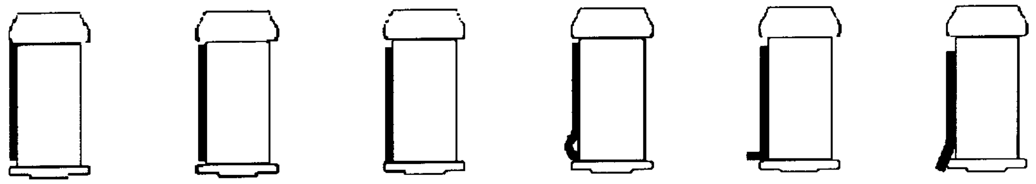


1-28. FF, REW Limit Confirmation

Specification	Confirm the Post Limit is as shown in the following table.
Mode	FF, REW
Work Tape	M Cassette (MP Tape) Tape begin and Tape end

Post	Tape Limit (Refer to Figure)					
	A	B	C	D	E	F
S5 Post	OK	OK	OK	NG	NG	NG
Tension Post	NG	OK	OK	NG	NG	NG
S1 Post	OK	NG	NG	NG	NG	NG
T1 Post	OK	OK	OK	NG	NG	NG
T3 Post	OK	OK	OK	NG	NG	NG
T4 Post	OK	OK	OK	NG	NG	NG

1. Run a tape in FF, REW mode and confirm that the tape limit is as shown in the above table.
2. This confirmation is done after each adjustment.



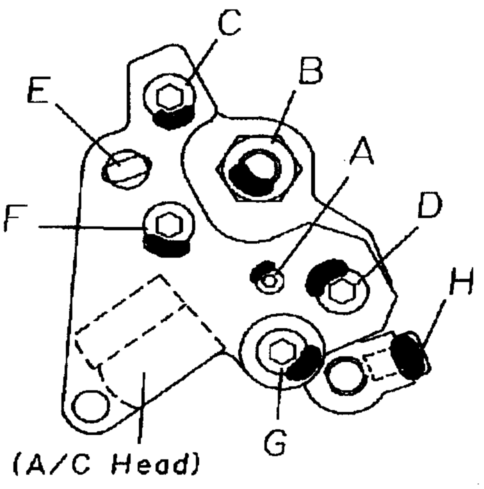
A Upper B Free C Lower D Curl E Bend F Drop

1-29. A/C Head and T3, T4 Post Screw Grew

[A/C Head Screw Grew]

	Screw A	Other Screw
Grew amount	About 3 mm	About 5 mm

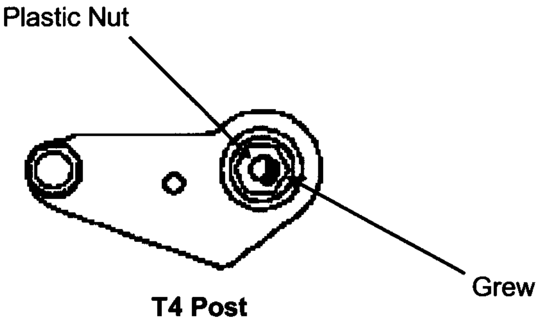
1. Grew after A/C Head Adjustment.
2. Remove the screw grew before Adjustment.


C
E
B
A
F
D
H
G
(A/C Head)

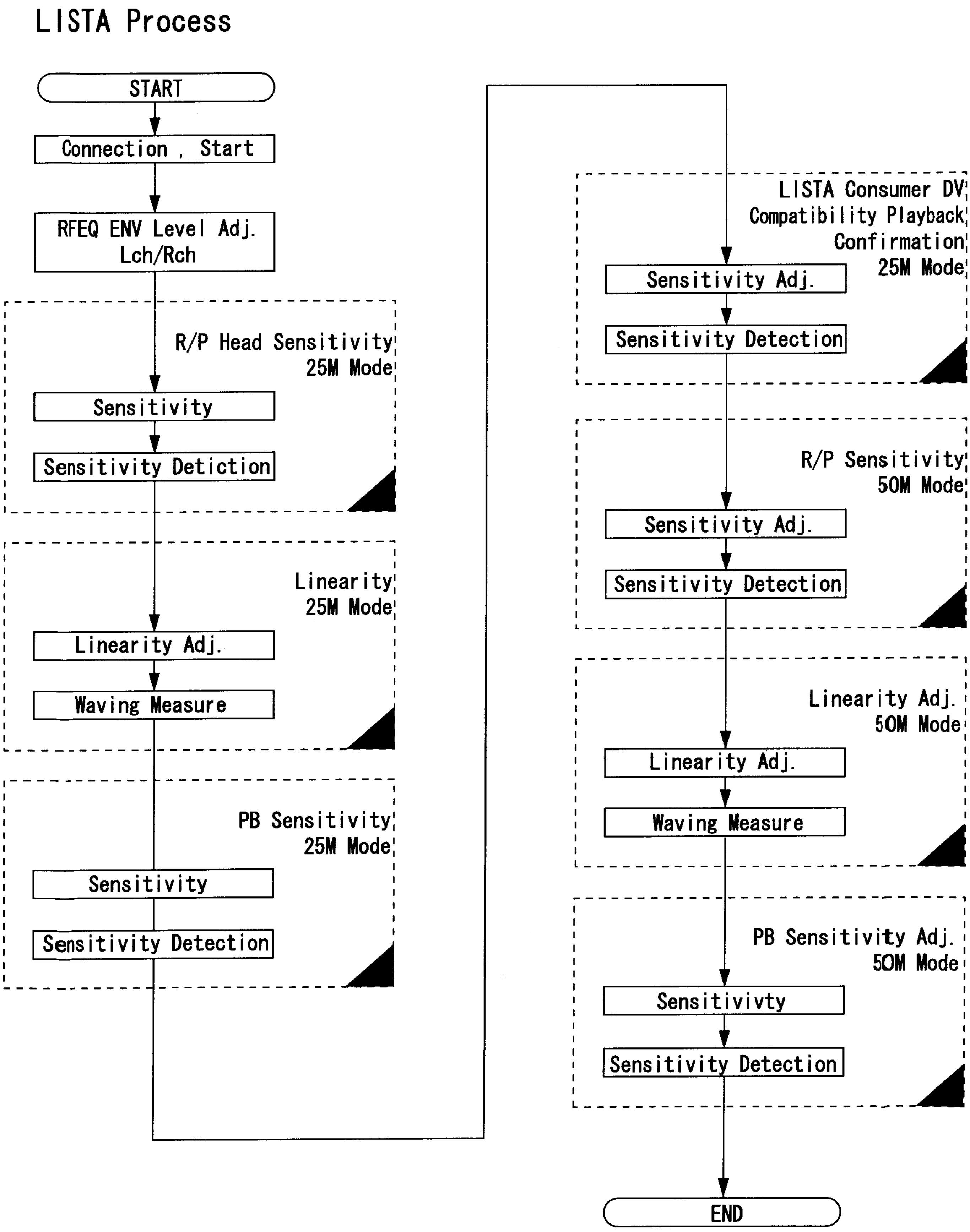
[T3 Post, T4 Post Grew]

	T3 Post	T4 Post
Grew amount	About 3 mm	About 5 mm

1.After A/C Head Adjustment, grew the Plastic Nut part of T3 and T4 posts.
2. Remove the screw grew before Adjustment.


Plastic Nut
Grew
T4 Post

1-30. LISTA

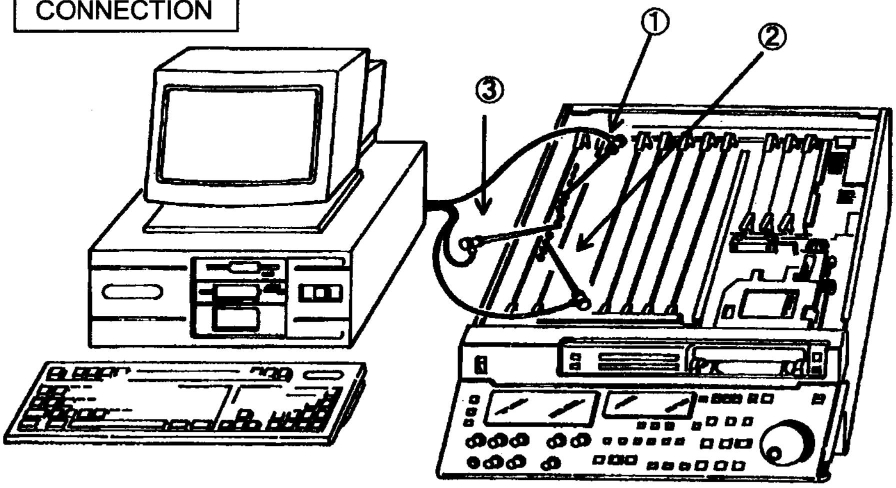

LISTA Process
START
Connection , Start
RFEQ ENV Level Adj.
Lch/Rch
R/P Head Sensitivity
25M Mode
Sensitivity
Sensitivity Detection
Linearity
25M Mode
Linearity Adj.
Waving Measure
PB Sensitivity
25M Mode
Sensitivity
Sensitivity Detection
LISTA Consumer DV
Compatibility Playback
Confirmation
25M Mode
Sensitivity Adj.
Sensitivity Detection
R/P Sensitivity
50M Mode
Sensitivity Adj.
Sensitivity Detection
Linearity Adj.
50M Mode
Linearity Adj.
Waving Measure
PB Sensitivity Adj.
50M Mode
Sensitivivty
Sensitivity Detection
END

1-31. LISTA Connection and Start

Test Point	TP732 ATF ERR (SERVO:F1) TP722 R/P HSW (SERVO:F1) TP723 PB HSW (SERVO:F1) TG510 GND (SERVO:F1)
M. EQ.	PC (AD Board must be installed.), Oscilloscope
Tape	VFM3580KM (ENV LEVEL), VFM3581KM (LISTA)
Tool	VFK1481 (LISTA Software), VFK1186(LISTA Cable)

1. Connect the LISTA cable with the A/D board in the PC.
2. Connect the LISTA clips to the following Test Points.
   (1) ATF:TP732 (F1)
   (2) HSW:TP722(RP HSW) or TP723(PB HSW)
   (3) GND:TG510

CONNECTION



3. Run the LISTA software.

Installation and Operation

Make a directory like C:LISTA and copy the all files in the floppy disk of VFK1481.

Type Lista.exe in the DOS mode to run the LISTA software.

4. Select the model of AJ-D940 in the menu.
5. Select a alignment tape to use LISTA Adjustment. If it is not displayed choose one of the listed tape and type Y ((Y)es or (N)o) and resist the data which is supplied with the alignment tape.

1-32. Alignment Tape Data Registration

1. Select <4> Alignment Tape in the LISTA software main menu.
2. Select <2> ENTRY in the Alignment Tape Menu.
3. When << Alignment tape Data Entry >> is displayed, input the tape serial number according with the menu instruction. The serial number is stumped on the alignment tape. Then select the PAL or NTSC. Type 0 or ENTER to choose DVCPRO.
4. Then input the all data (37 items for NTSC) and check sum. IF the data is incorrect registration is not completed so check and input again.

After data registration select <1> SELECT.

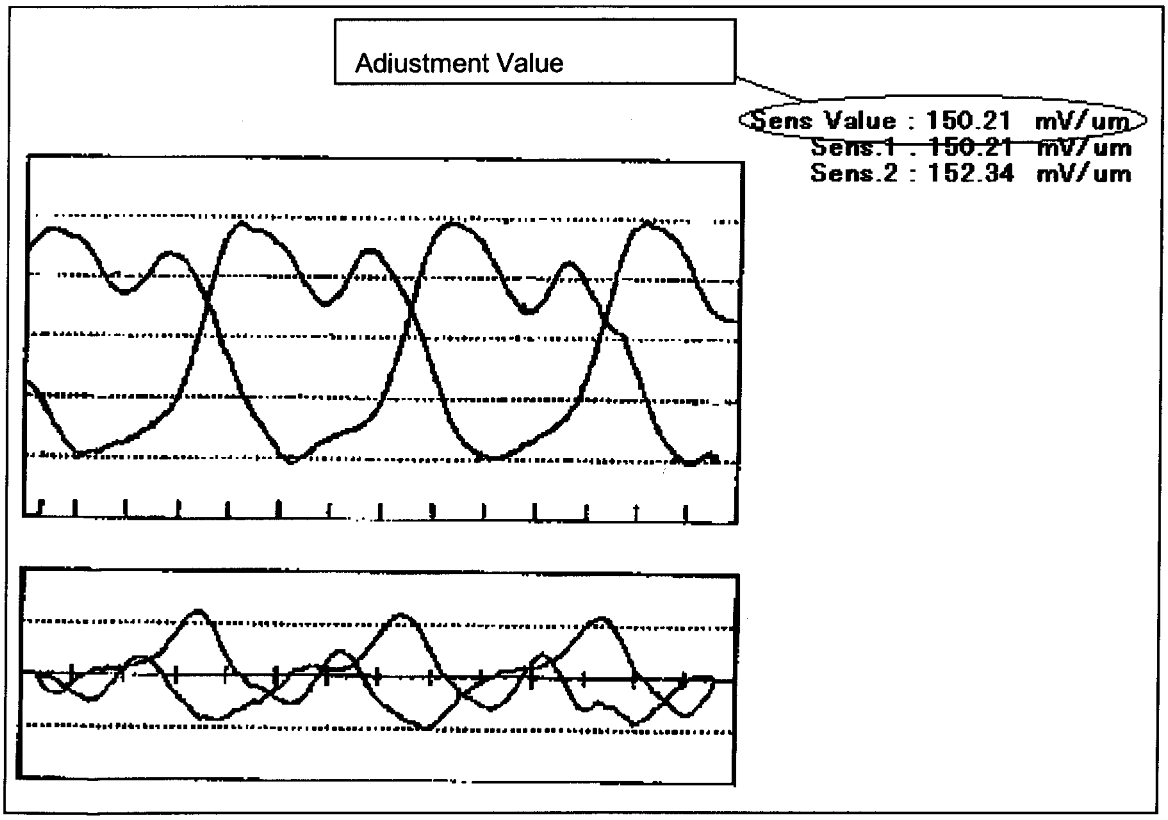
1-33. RP Head Sensitivity Adjustment (25M Mode)

Specification	Sensitivity 150 ± 15 (mV/um)
Mode	Playback
Test Point	(1) ATF:TP732 (2) HSW:TP722(RP HSW) (not TP723(PB HSW) (3) GND:TG510
Adjustment	SERVO Adjustment Menu:"A09 RP GAIN P"
Tape	VFM3581KM or VFM3581KL

Before this Adjustment adjust RFEQ (H3/H4) ENV Level Adjustment(L/R).

Set the LISTA software in 25M Mode. Select AJ-D950 in the PC menu and displays the main menu. 25M and 50m mode can be changed by "0" key.

1. Set the VTR in Service Mode to open the service menu and select the item of "A09 RP GAIN DP" in the "SERVO ADJUST" menu.
2. Playback a LISTA alignment tape (VFM3581KM).
3. Select the LISTA (6) ATF Error Signal Monitor and "1.2% Speed..." and type Enter to start the software.
4. When the picture is appeared as shown in figure adjust ATF Gain so that the "Sens. Value:" is in the Specification. To return the main menu press ESC key.



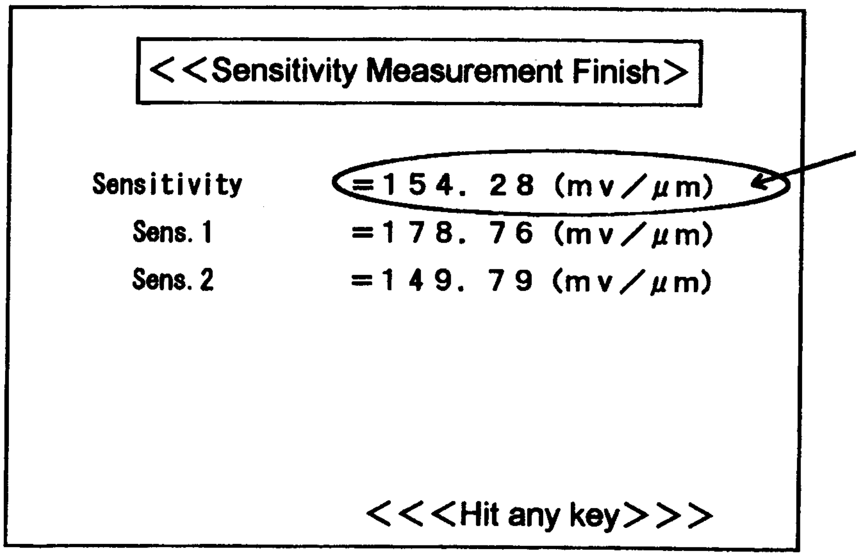
```
Sens Value : 150.21  mV/um
Sens.1 : 150.21  mV/um
Sens.2 : 152.34  mV/um
```

1-34. RP Head Sensitivity Detection (25M Mode)

Specification	Sensitivity 150 ± 15 (mV/um)
Mode	Playback
Test Point	(1) ATF:TP732 (2) HSW:TP722(RP HSW) (not TP723(PB HSW) (3) GND:TG510
Adjustment	SERVO Adjustment Menu: “A09 RP GAIN DP”
Tape	VFM3581KM or VFM3581KL

Before this adjustment RP Head Sensitivity Adjustment (25M Mode) must be completed.

1. Select “A09 RP GAIN DP” in the Service Menu.
2. Playback a LISTA Alignment Tape (VFM3581KM).
3. Select LISTA Main Menu “(1) Sensitivity Measurement” Press enter when “1.2% Speed...” is appeared to start the Sensitivity measurement.
4. Confirm that the specification is satisfied when << Sensitivity Measurement Finish>> and “Sensitivity = sensitivity value” are appeared.



```
<<Sensitivity Measurement Finish>

Sensitivity    =154. 28 (mv/μm)
  Sens. 1      =178. 76 (mv/μm)
  Sens. 2      =149. 79 (mv/μm)



               <<<Hit any key>>>
```

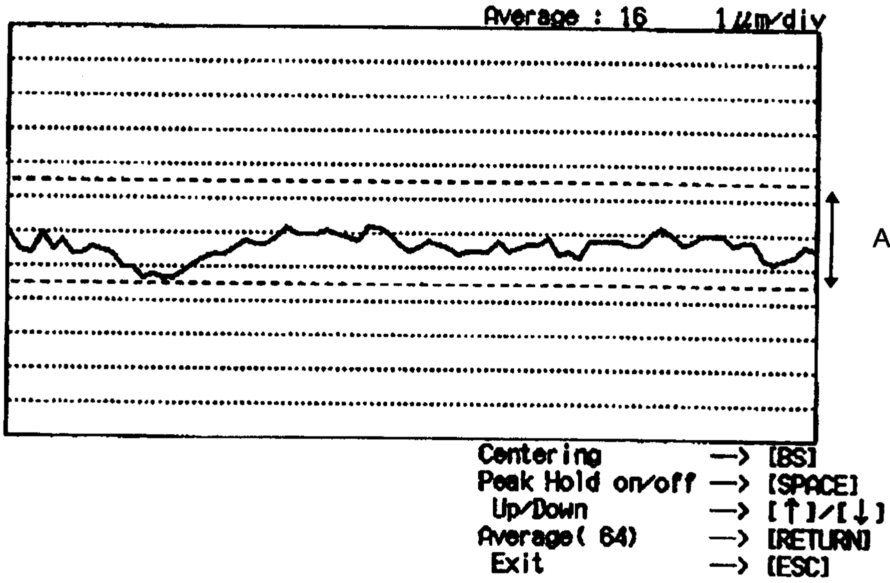
Adjustment Value

1-35. LISTA Linearity Adjustment and Waving Measurement (25M Mode)

Specification	Linearity is less than 3um, Waving is less than 1.5um.
Mode	SERVO Adjustment Menu:"A10 RP LINEAR DP"
Test Point	(1) ATF:TP732 (2) HSW:TP722(RP HSW) (not TP723(PB HSW) (3) GND:TG510
Adjustment	S1 and T1 Post Height
Tape	VFM3581KM or VFM3581KL

1. Open the Service Menu and select "A10 RP LINEAR DP" in the "SERVO ADJUST"
2. Playback a LISTA alignment Tape (VFM3581KM).
3. Select "(2) Linearity Measurement" then Linearity waveform is appeared.
4. When the following waveform is appeared press "BS" (Back Space) key to centering the waveform. Adjust S1 and T1 Post Height so that the Linearity waveform is flat. Confirm the ENV waveform is flat.

Red dot lines shows the specification, so linearity waveform should be in the lines.



Adjustment Value: 3μm

Points

(1) The left of linearity (Entrance) is changed by S1 Post Height and right of linearity (Exit) is changed by T1 Post Height.

(2) Lower of the monitor is changed by the lead of the cylinder.

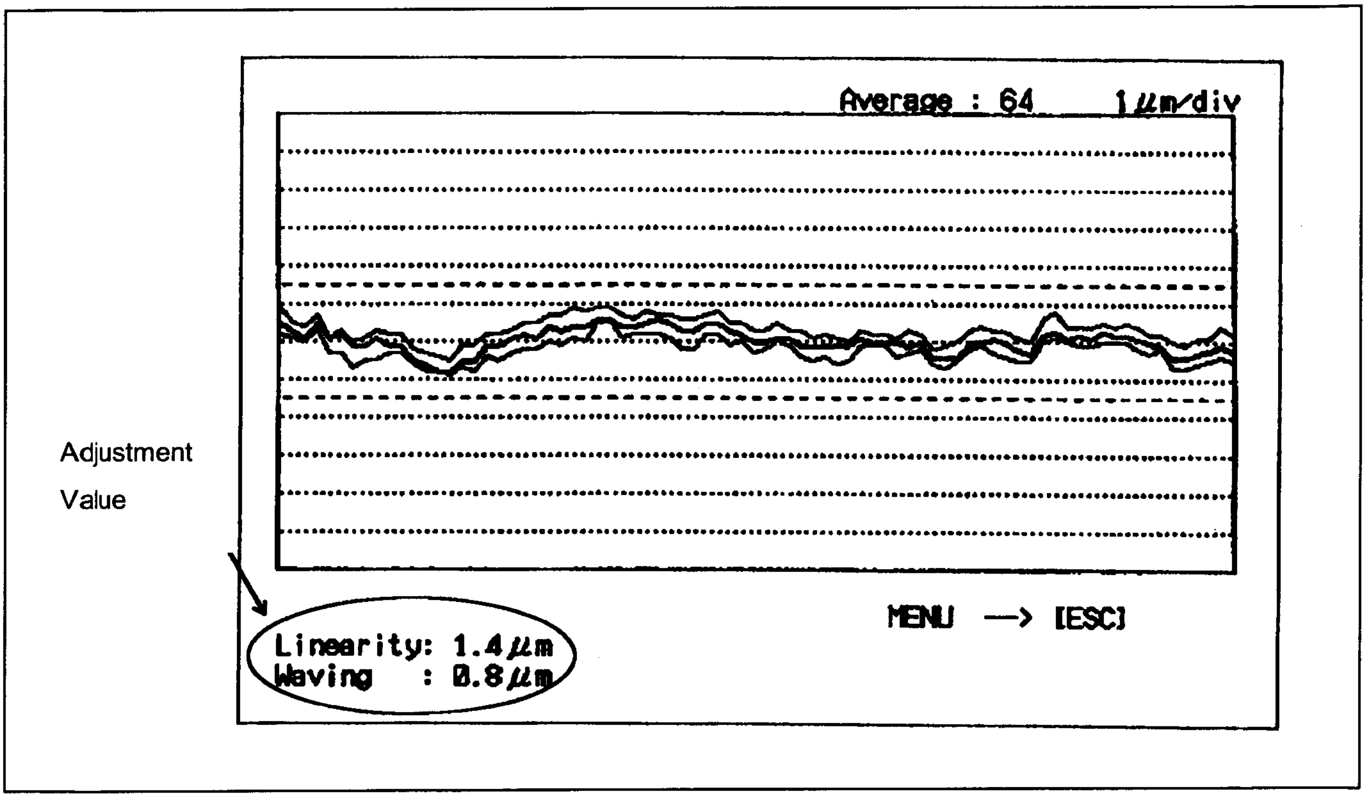
(3) When the Post Driver is released from the Post linearity may be changed.

(4) After Adjustment is completed, EJECT the tape end load it again and confirm the waveform is not changed.

5. After the Linearity Adjustment measure the waving.

Waving Measurement

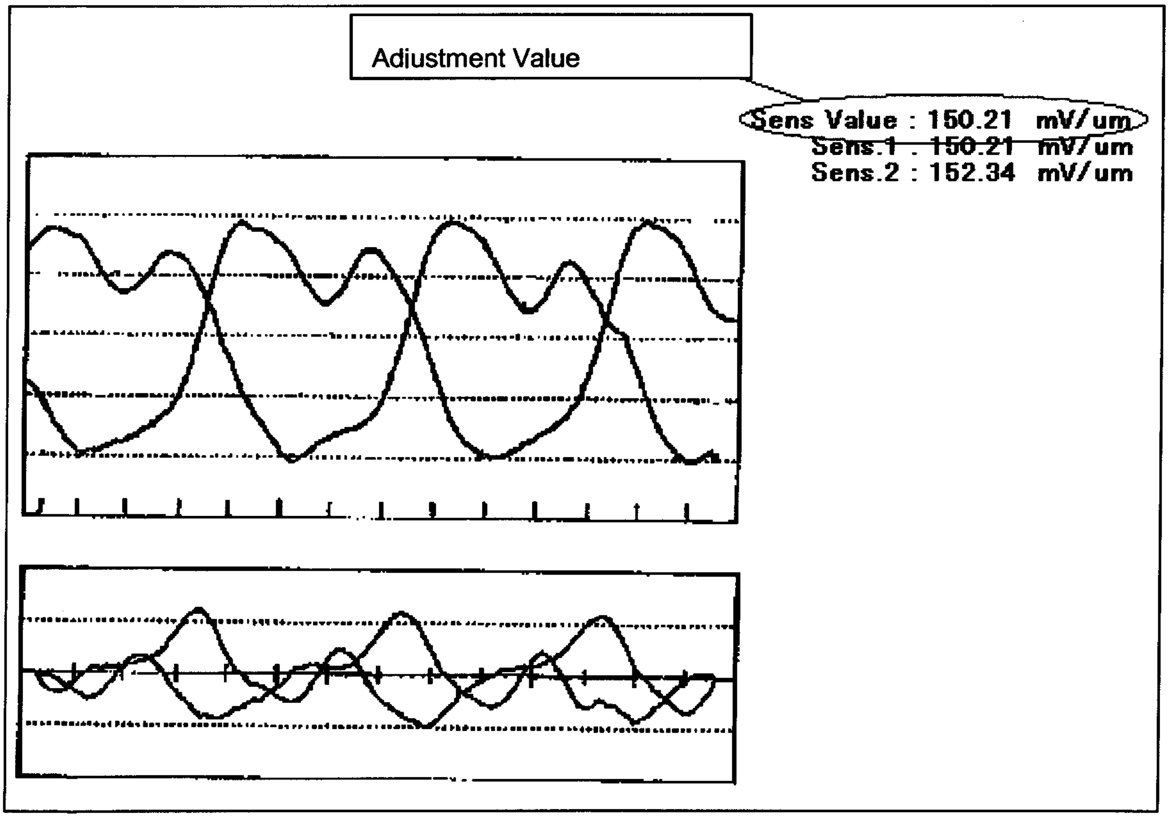
1. While the linearity is displayed on the monitor press “SPACE” key to hold the Peak (30 seconds).
2. Press “SHIFT” and “}” keys together and “Waving” value is displayed at left bottom of the monitor. Then confirm the waving is 1.5 um or less, and the waving is constant from the entrance to exit. If the waving is out of specification adjust S1 (Entrance) and T1 (Exit) Post Height.
3. After measurement press ESC key to return the main menu.


Average : 64
1µm/div
Adjustment Value
Linearity: 1.4µm
Waving : 0.8µm
MENU —> [ESC]

1-36. PB Head LISTA Sensitivity Adjustment (25M Mode)

Specification	Sensitivity 150 ± 15 (mV/um)
Mode	SERVO Adjustment Menu "A11 PB GAIN DP"
Test Point	(1) ATF:TP732 (2) HSW:TP723(PB HSW) (not TP722(RP HSW) (3) GND:TG510
Adjustment	SERVO Adjustment Menu: "A11 PB GAIN DP"
Tape	VFM3581KM or VFM3581KL

1. Open the Service Menu and select "A11 PB GAIN DP" in the "SERVO ADJUST" menu.
2. Playback a LISTA alignment Tape (VFM3581KM).
3. Select LISTA Main Menu "(6) ATF Error Signal Monitor" Press enter when "1.2% Speed..." is appeared to start the Sensitivity measurement.
4. When the picture is appeared as shown in figure adjust ATF Gain so that the "Sens. Value:" is in the Specification.
5. After Adjustment press ESC key to return the main menu.



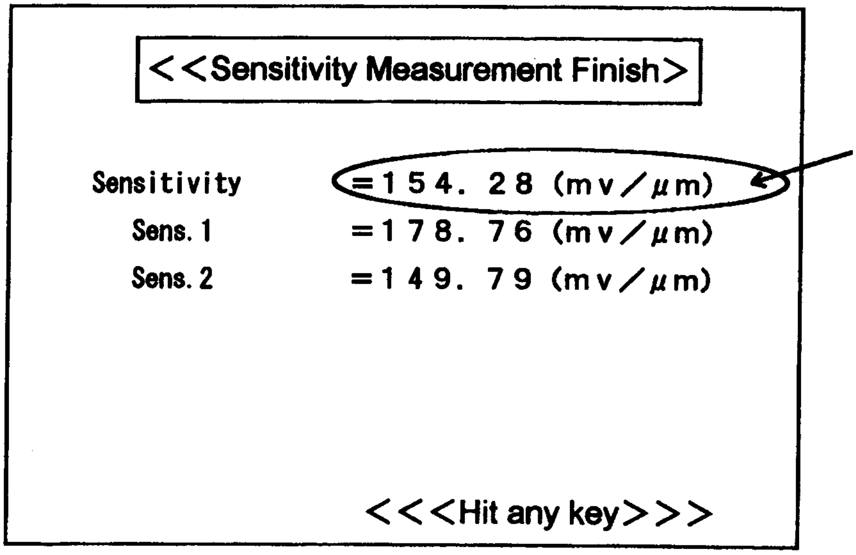
```
Sens Value : 150.21  mV/um
Sens.1 : 150.21  mV/um
Sens.2 : 152.34  mV/um
```

1-37. PB Head Sensitivity Detection (25M Mode)

Specification	Sensitivity 150 ± 15 (mV/um)
Mode	Playback
Test Point	(1) ATF:TP732 (2) HSW:TP723(PB HSW) (not TP722(RP HSW) (3) GND:TG510
Adjustment	SERVO Adjustment Menu:"A09 RP GAIN P"
Tape	VFM3581KM or VFM3581KL

Before this adjustment PB Head Sensitivity Adjustment (25M Mode) must be completed.

1. Open the Service Menu and select "A11 PB GAIN DP".
2. Playback a LISTA alignment tape (VFM3581KM).
3. Select LISTA Main Menu "(1) Sensitivity Measurement" Press enter when "1.2% Speed..." is appeared to start the Sensitivity measurement.
4. Confirm that the specification is satisfied when << Sensitivity Measurement Finish>> and "Sensitivity = sensitivity value" are appeared.



```
<<Sensitivity Measurement Finish>

Sensitivity   =154. 28 (mv/μm)
  Sens. 1     =178. 76 (mv/μm)
  Sens. 2     =149. 79 (mv/μm)


                <<<Hit any key>>>
```

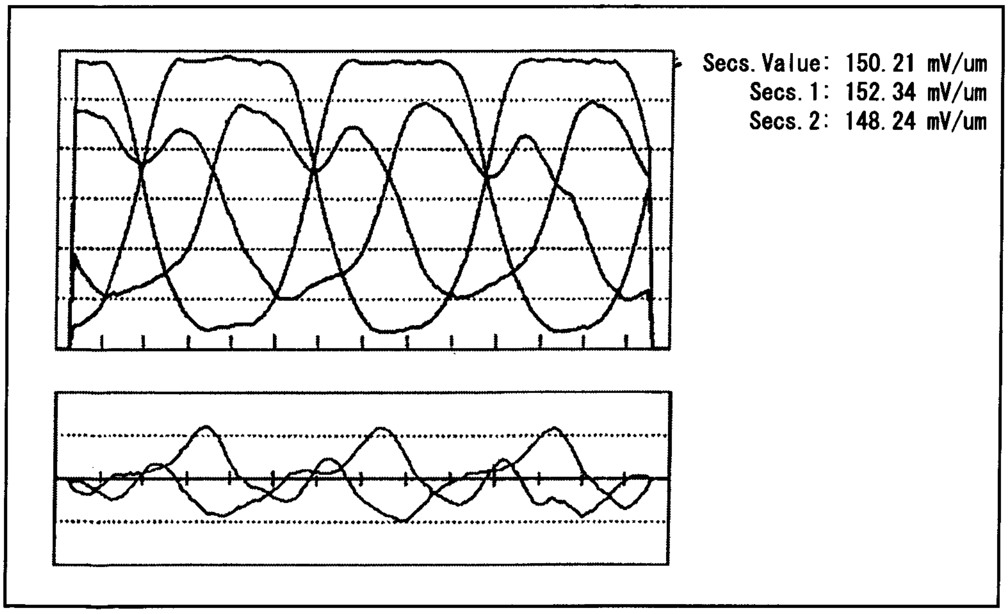
Adjustment Value

1-38. LISTA Consumer DV Compatibility Playback Confirmation

Specification	Sensitivity 130 ± 30 (mV/um)
Mode	Servo Adjustment Menu: "A08 RP GAIN"
Test Point	TP321: ATF Error (Servo Board: F1) TP233: HSW_R/P (Servo Board: F1) TP510: GND (Servo Board: F1)
Adjustment	LISTA Set
Tape	VFM3000EDS (LISTA Master Tape for consumer DV)

1. Select "A08 RP GAIN" of the Servo Adjustment menu.
2. Select "(4) LISTA Alignment Tape" of LISTA menu and Select the "NTSC or PAL" number of DV tape number which is used for adjustment.

   Note: The Alignment tape (VFM3000EDS) is common use NTSC and PAL.
   Please be careful select the "NTSC" or "PAL" on the above menu, which is follow the VTR.
3. Playback the consumer DV LISTA master Tape.
4. Select the "(6) ATF Error Signal Monitor" and display the sensitivity data.
5. When the sensitivity data is displayed, adjust ATF Gain so that the sensitivity value at the upper-left on the monitor is in the specification.
6. ATF Gain is adjusted by rotating the JOG Dial while pressing the JOG/SHTL key.
7. After completion of adjustment, press ESC key to return menu and select (1) sensitivity Measurement.
8. Confirm the sensitivity value is in the specification.

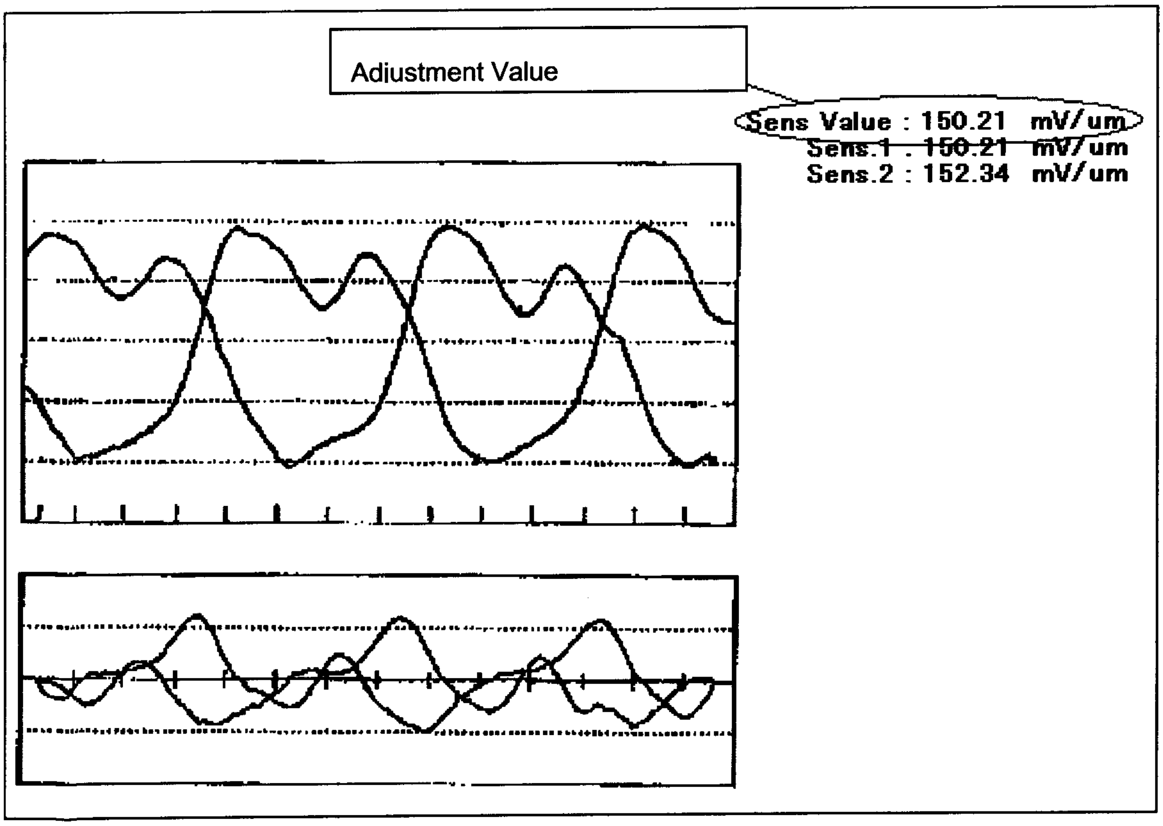


```
Secs.Value: 150.21 mV/um
    Secs.1: 152.34 mV/um
    Secs.2: 148.24 mV/um
```

1-39. RP Head Sensitivity Adjustment (50M Mode)

Specification	Sensitivity 150 ± 15 (mV/um)
Mode	Playback
Test Point	(1) ATF:TP732 (2) HSW:TP722(RP HSW) (not TP723(PB HSW) (3) GND:TG510
Adjustment	SERVO Adjustment Menu:"A05 RP GAIN ED"
Tape	VFM3581KM or VFM3581KL

1. Set the LISTA software in 50M Mode. Select AJ-D950 in the PC menu and displays the main menu. 25M and 50m mode can be changed by "0" key.
2. Open the SET-UP Menu and set #012: 422 #013: MANUAL.
3. Set the VTR in Service Mode to open the service menu and select the item of "A05 RP GAIN ED" in the "SERVO ADJUST" menu.
4. Playback a LISTA alignment tape (VFM3581KM).
5. Select the LISTA (6) ATF Error Signal Monitor and "1.2% Speed..." and type Enter to start the software.
6. When the picture is appeared as shown in figure adjust ATF Gain so that the "Sens. Value:" is in the Specification. To return the main menu press ESC key.



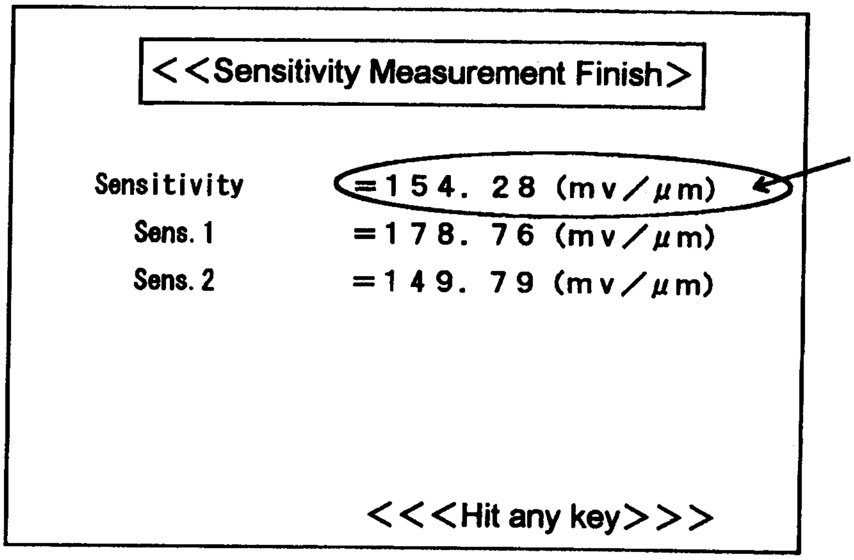
```
Sens Value : 150.21  mV/um
Sens.1 : 150.21  mV/um
Sens.2 : 152.34  mV/um
```

1-40. RP Head Sensitivity Detection (50M Mode)

Specification	Sensitivity 150 ± 15 (mV/um)
Mode	Playback
Test Point	(1) ATF:TP732 (2) HSW:TP722(RP HSW) (not TP723(PB HSW) (3) GND:TG510
Adjustment	SERVO Adjustment Menu: “A05 RP GAIN ED”
Tape	VFM3581KM or VFM3581KL

Before this adjustment RP Head Sensitivity Adjustment (25M Mode) must be completed.

1. Select “A05 RP GAIN ED” in the Service Menu.
2. Playback a LISTA Alignment Tape (VFM3581KM).
3. Select LISTA Main Menu “(1) Sensitivity Measurement” Press enter when “1.2% Speed...” is appeared to start the Sensitivity measurement.
4. Confirm that the specification is satisfied when << Sensitivity Measurement Finish>> and “Sensitivity = sensitivity value” are appeared.



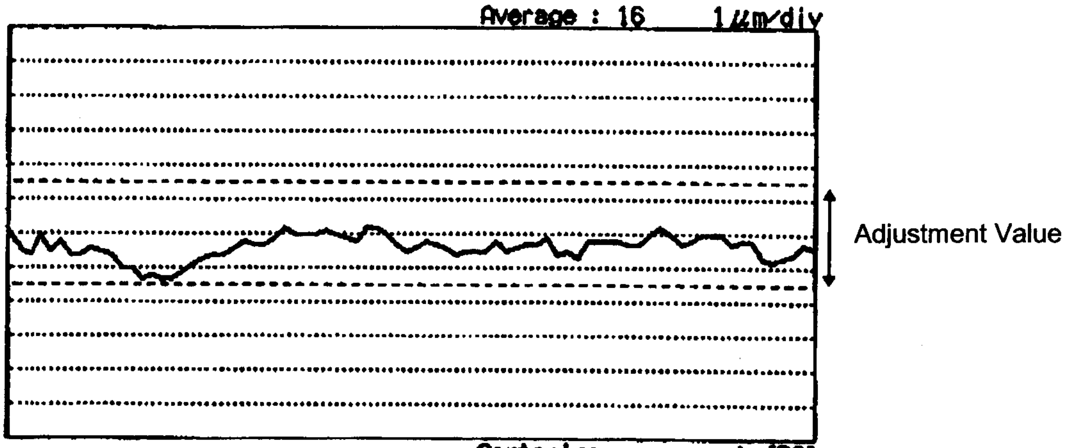
```
<<Sensitivity Measurement Finish>

Sensitivity   =154. 28 (mv/μm)
   Sens. 1    =178. 76 (mv/μm)
   Sens. 2    =149. 79 (mv/μm)


                 <<<Hit any key>>>
```

1-41. LISTA Linearity Confirmation and Waving Measurement (50M Mode)

Specification	Linearity is less than 3um, Waving is less than 1.5um.
Mode	SERVO Adjustment Menu:"A06 RP LINEAR ED"
Test Point	(1) ATF:TP732 (2) HSW:TP722(RP HSW) (not TP723(PB HSW) (3) GND:TG510
Adjustment	S1 and T1 Post Height
Tape	VFM3581KM or VFM3581KL

1. Open the Service Menu and select "A06 RP LINEAR ED" in the "SERVO ADJUST"
2. Playback a LISTA alignment Tape (VFM3581KM).
3. Select "(2) Linearity Measurement" then Linearity waveform is appeared.
4. When the following waveform is appeared press "BS" (Back Space) key to centering the waveform. Adjust S1 and T1 Post Height so that the Linearity waveform is flat. Confirm the ENV waveform is flat.

Red dot lines shows the specification, so linearity waveform should be in the lines.

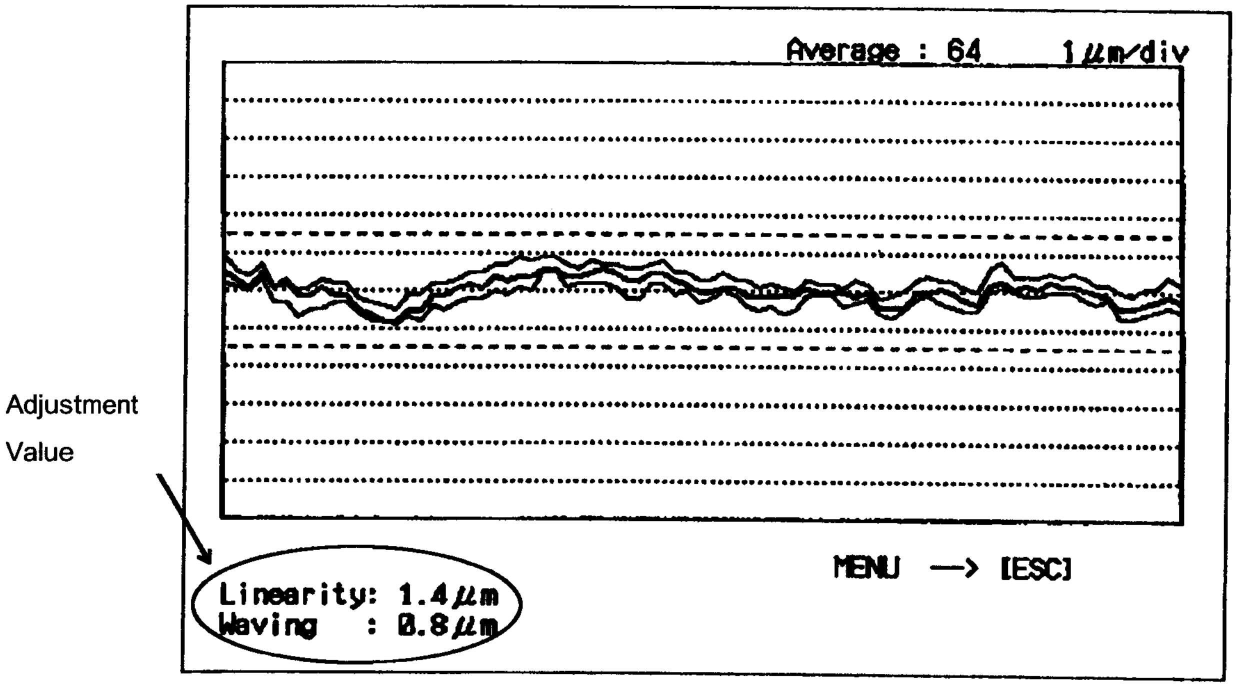


```
Centering         —> [BS]
Peak Hold on/off  —> [SPACE]
 Up/Down          —> [↑]/[↓]
Average( 64)      —> [RETURN]
 Exit             —> [ESC]
```

After the Linearity Adjustment measure the waving.

Waving Measurement

1. While the linearity is displayed on the monitor press “SPACE” key to hold the Peak (30 seconds).
2. Press “SHIFT” and “}” keys together and “Waving” value is displayed at left bottom of the monitor. Then confirm the waving is 1.5 um or less, and the waving is constant from the entrance to exit. If the waving is out of specification adjust S1 (Entrance) and T1 (Exit) Post Height.
3. After measurement press ESC key to return the main menu.

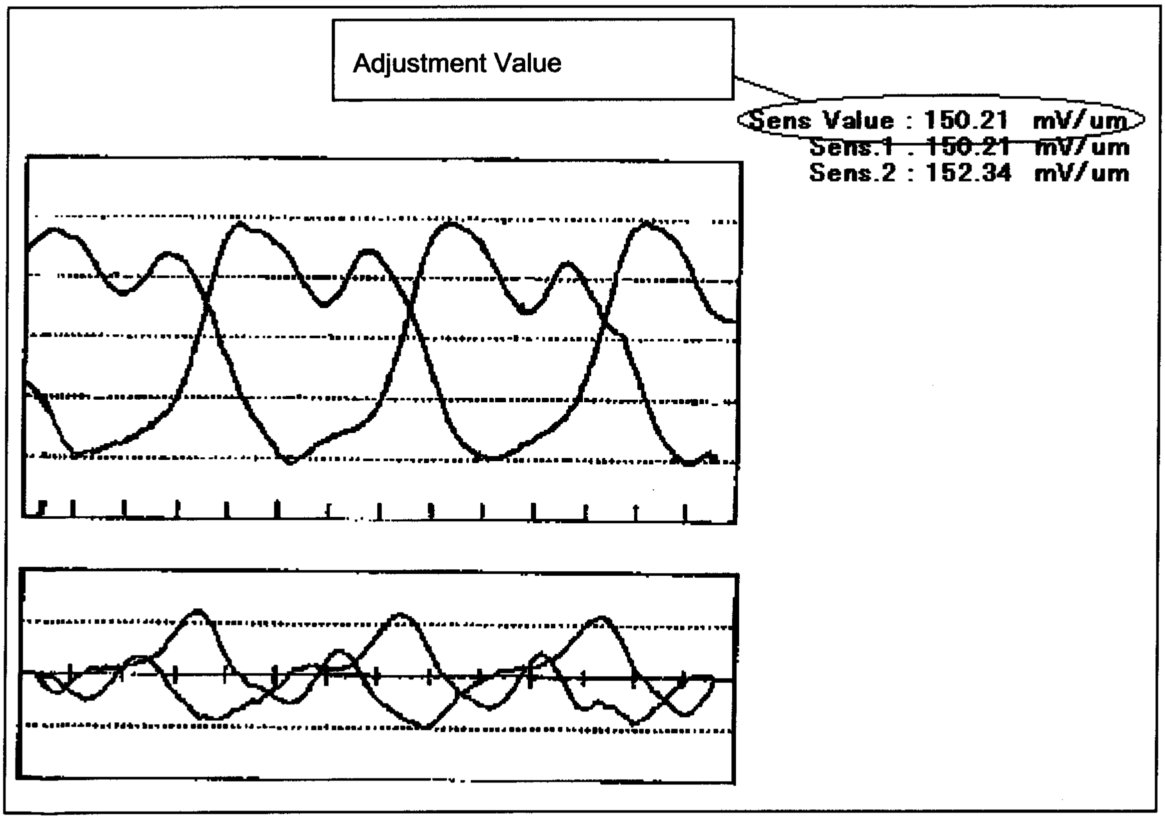

Average : 64
1µm/div
Adjustment
Value
Linearity: 1.4µm
Waving : 0.8µm
MENU —> [ESC]

1-42. PB Head LISTA Sensitivity Adjustment (50M Mode)

Specification	Sensitivity 150 ± 15 (mV/um)
Mode	SERVO Adjustment Menu "A07 PB GAIN ED"
Test Point	(1) ATF:TP732 (2) HSW:TP723(PB HSW) (not TP722(RP HSW) (3) GND:TG510
Adjustment	SERVO Adjustment Menu: "A07 PB GAIN ED"
Tape	VFM3581KM or VFM3581KL

1. Open the Service Menu and select "A07 PB GAIN ED" in the "SERVO ADJUST" menu.
2. Playback a LISTA alignment Tape (VFM3581KM).
3. Select LISTA Main Menu "(6) ATF Error Signal Monitor" Press enter when "1.2% Speed..." is appeared to start the Sensitivity measurement.
4. When the picture is appeared as shown in figure adjust ATF Gain so that the "Sens. Value:" is in the Specification.

After Adjustment press ESC key to return the main menu.



Adjustment Value

```
Sens Value : 150.21  mV/um
Sens.1 : 150.21  mV/um
Sens.2 : 152.34  mV/um
```

1-43. PB Head Sensitivity Detection (50M Mode)

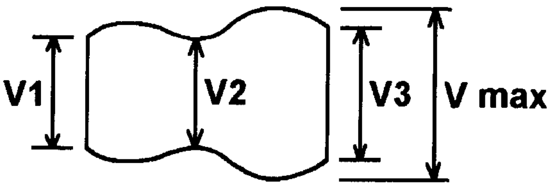
Specification	Sensitivity 150 ± 15 (mV/um)
Mode	Playback
Test Point	(1) ATF:TP732 (2) HSW:TP723(PB HSW) (not TP722(RP HSW) (3) GND:TG510
Adjustment	SERVO Adjustment Menu:"A07 PB GAIN ED"
Tape	VFM3581KM or VFM3581KL

Before this adjustment PB Head Sensitivity Adjustment (50M Mode) must be completed.

1. Open the Service Menu and select "A07 PB GAIN ED".
2. Playback a LISTA alignment tape (VFM3581KM).
3. Select LISTA Main Menu "(1) Sensitivity Measurement" Press enter when "1.2% Speed..." is appeared to start the Sensitivity measurement.
4. Confirm that the specification is satisfied when << Sensitivity Measurement Finish>> and "Sensitivity = sensitivity value" are appeared.

1-44. PLAY Envelope Confirmation

Specification	V1/Vmax,V2/Vmax,V3/Vmax ≧ 0.8
Test Point	TP201 R/P ENV L:H3/ R:H4
Adjustment	S1,T1PostHeight
Mode	PLAY
Tape	VFM3580KM(No.1)
M. EQ.	Oscilloscope
Tool	VFK1149 (Post Driver-)



1. Playback an alignment Tape.
2. Confirm the R/P Envelope Level is in the specification.
3. If it is not adjust ENV waveform Adjustment and LISTA Adjustment.

2. Measure Parts Replacement and Adjustment

General

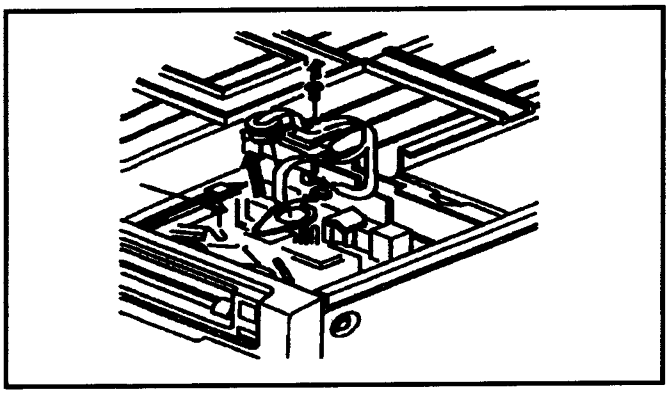
Note the following items for each part replacement.

1. Turn Power Off before replacement.
2. Use the correct tool in the Jigs and Tools list.
3. After replacement clean the VTR according with the cleaning procedures.

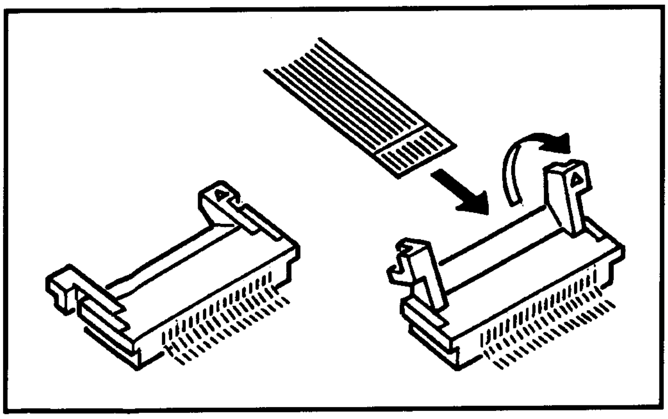
2-1. Cylinder Unit Replacement

(Removal of Cylinder Unit)

1. Remove the T1 guide and cleaning arm unit. (Refer to the cleaning arm unit replacement.)
2. Remove 2 connectors (P5002, P5003) on the Head Buffer board and remove the screw on the flexible cable.

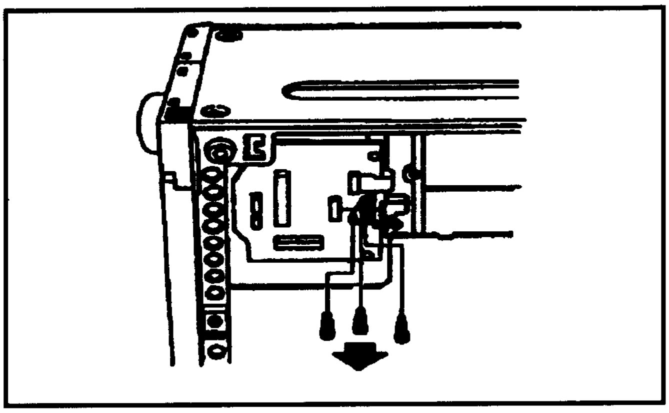


Note: Be careful to remove the flexible cable from the connector. Do not touch on the cylinder surface by finger directly.



3. Remove the connector P33 on the Mech. Interconnection board at bottom of VTR. Then remove 3 screws (with spring) and draw out the cylinder unit without touching any parts.

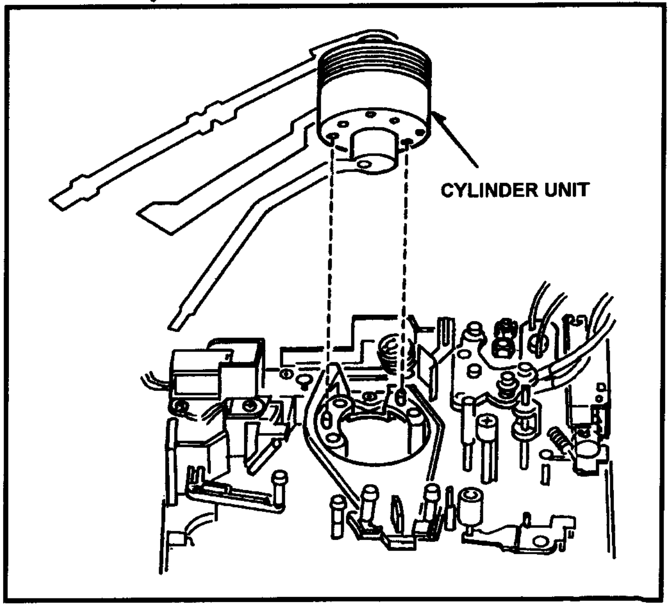
Note: Do not touch the cylinder surface by finger directly.



(Installation of cylinder)

1. Install a Cylinder unit as reverse order of its removal.

Note: Set the Mechanical Chassis pins are matched with the specified cylinder holes on the bottom of the cylinder.



2. After T1 Guide installation, T1 Guide Position Adjustment is necessary. (Refer to Cleaning Arm Unit Replacement and T1 Guide Position Adjustment.)

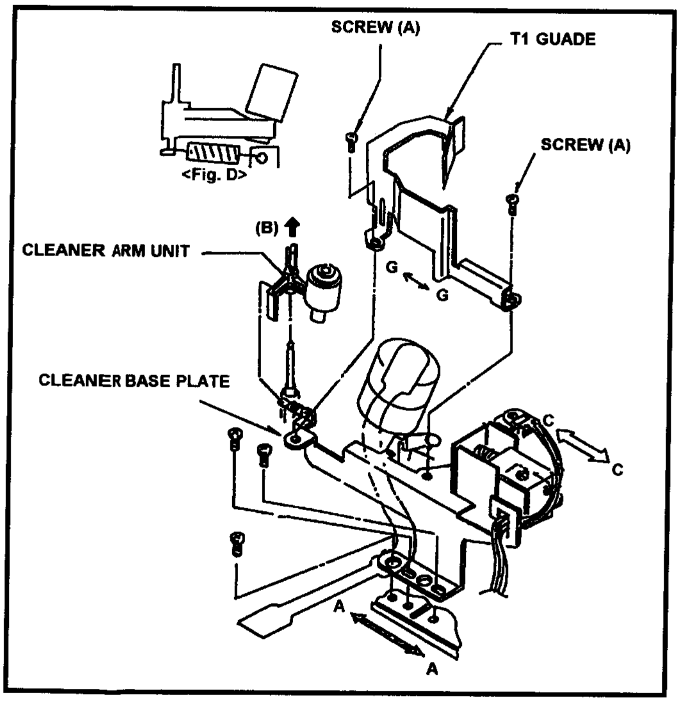
2-2. Cleaning Arm Unit Replacement

(Removal of Cleaning Arm Unit)

1. Remove 2 screws (A) and remove the T1 Guide.
2. Hang off the tip portion (B) of Cleaning Arm Unit and hang off the spring from Cleaning Arm Unit, then remove the Cleaning Arum Unit as shown in the figure.

(Installation of Cleaning Arm Unit)

1. Install a Cleaning Arm Unit to the T2 Arm Unit. Then remove the spring from the cleaner base plate and hook to cleaning arm unit. Push the cleaning arm unit into T2 Arm Unit.
2. Push the Cleaner Solenoid. Rotate the cylinder and confirm that the cleaner roller is rotated by the cylinder movement.
3. Install a T1 Guide.
4. After T1 Guide installation, T1 Guide position adjustment is necessary.



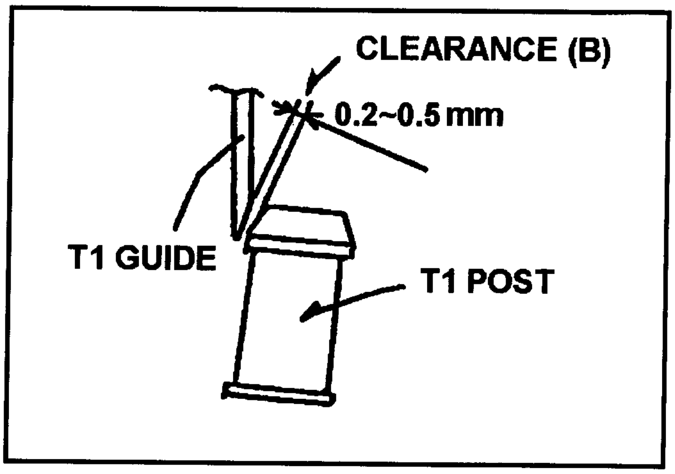
2-3. T1 Guide Position Adjustment

1. Set the VTR in no tape loading mode.

< No tape loading procedures >

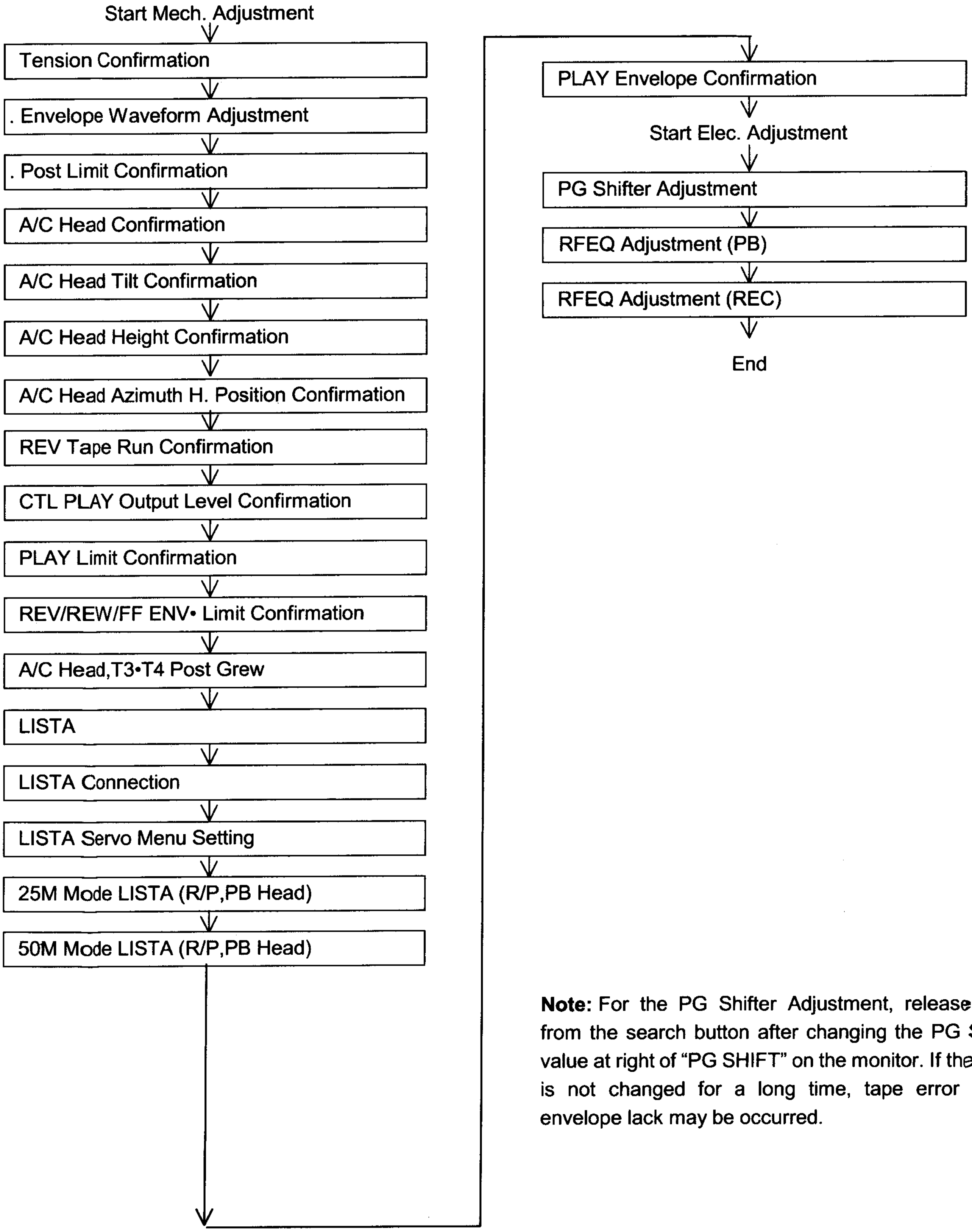
- Open the “Servo Adjust” menu in the “Service Menu”.
- Select the item “T TORQUE” and press the search button to make the loading condition. Then turns power off.

2. Confirm that the clearance between T Guide and T1 Post is 0.2 mm to 0.5 mm. (A little clearance is necessary.)
3. If it is not, loosen the 2 screws (A) and adjust the position of T1 guide by moving arrow direction (B)



2-4. Adjustments after Cylinder Unit Replacement

1. Adjust following items after cylinder unit replacement.


Start Mech. Adjustment
Tension Confirmation
. Envelope Waveform Adjustment
. Post Limit Confirmation
A/C Head Confirmation
A/C Head Tilt Confirmation
A/C Head Height Confirmation
A/C Head Azimuth H. Position Confirmation
REV Tape Run Confirmation
CTL PLAY Output Level Confirmation
PLAY Limit Confirmation
REV/REW/FF ENV• Limit Confirmation
A/C Head,T3•T4 Post Grew
LISTA
LISTA Connection
LISTA Servo Menu Setting
25M Mode LISTA (R/P,PB Head)
50M Mode LISTA (R/P,PB Head)
PLAY Envelope Confirmation
Start Elec. Adjustment
PG Shifter Adjustment
RFEQ Adjustment (PB)
RFEQ Adjustment (REC)
End

Note: For the PG Shifter Adjustment, release hand from the search button after changing the PG Shifter value at right of "PG SHIFT" on the monitor. If the value is not changed for a long time, tape error or ITI envelope lack may be occurred.

2-5. A/C Head Replacement

Replacement Procedures

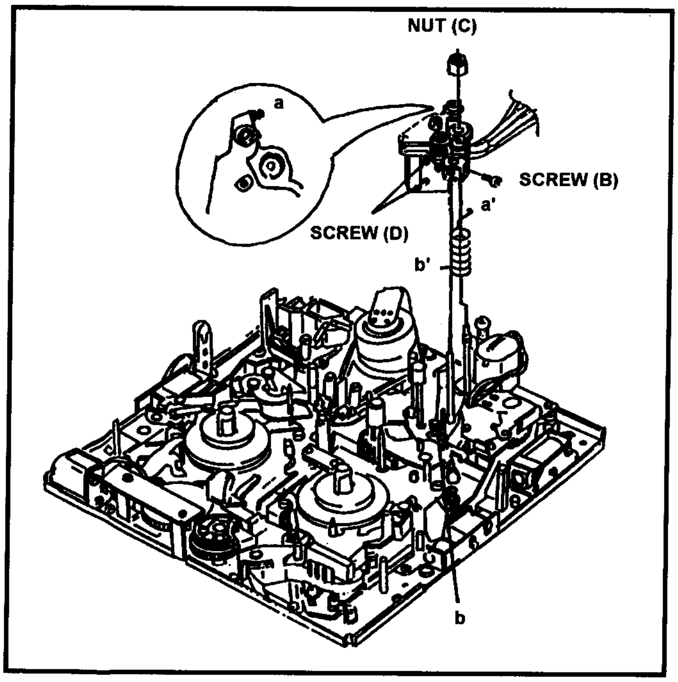
Tool

Nut Driver (5.5mm)(VFK1150)
Hex Driver (VFK1148)
Hex Wrench (VFK1190)

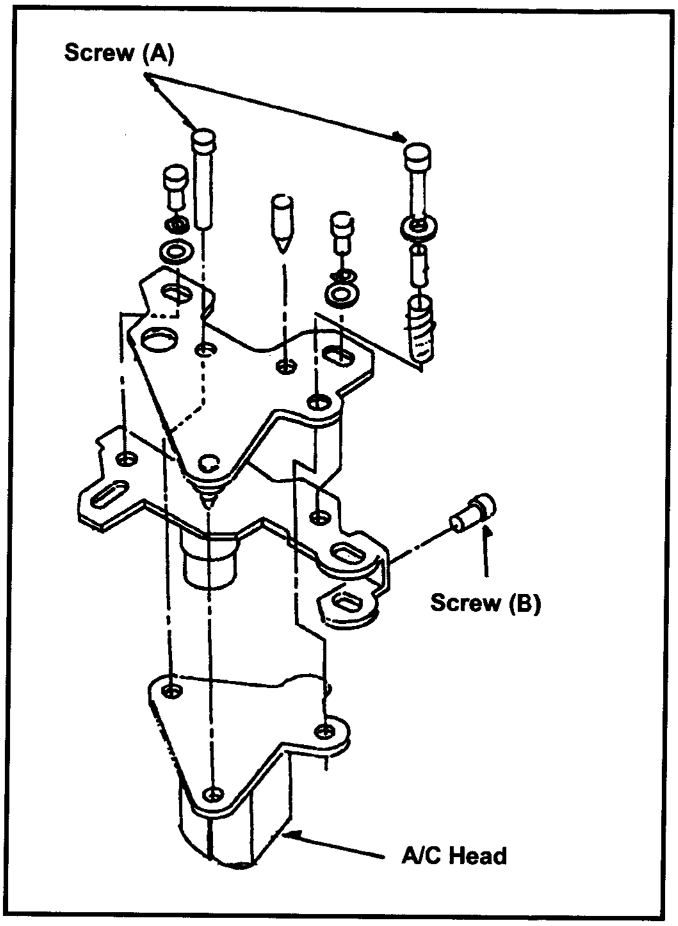
(Removal of A/C Head)

1. Remove the top panel.
2. Loosen the hex screw (B) and remove the nut (C) then hang off the height adjustment spring (a). Remove the A/C Head Unit.

   Note: Remember the Nut (C) height before removing it.

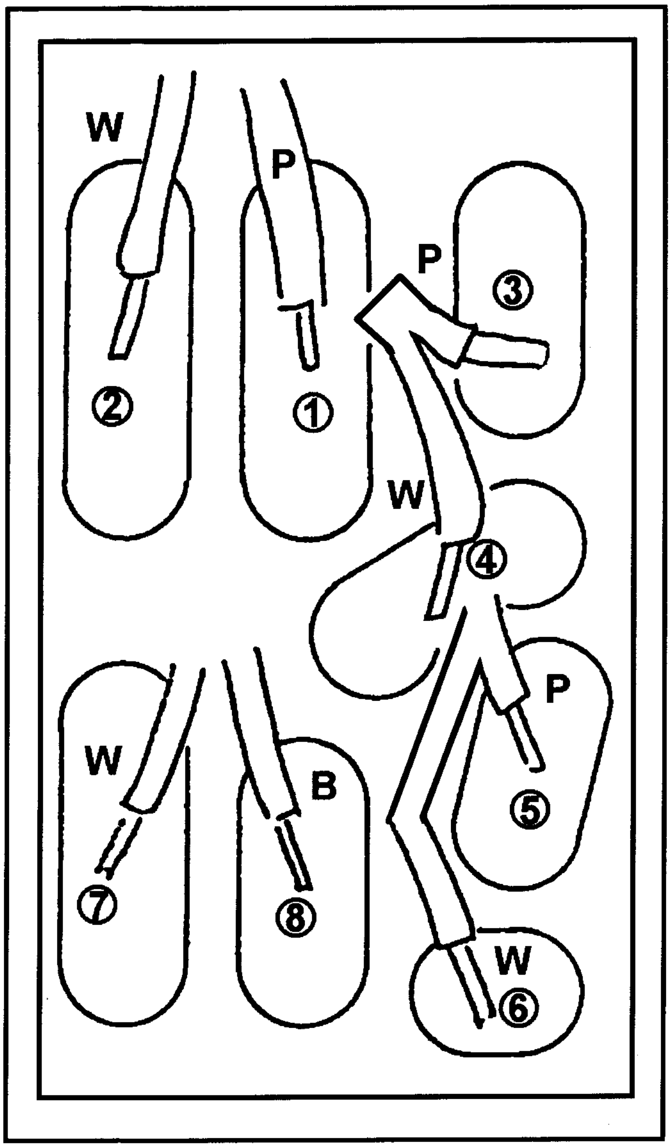


3. Remove 2 screws (A) and remove P1 on AC HEAD I/F board and P2030 on Mech. I/F board, then remove A/C Head.
4. Remove 2 screws (D) and remove the shield case.
5. Unsolder the Lead wire from the A/C Head. (When unsolder the lead wires, do not unsolder all at the same time.)



(Installation of A/C Head)

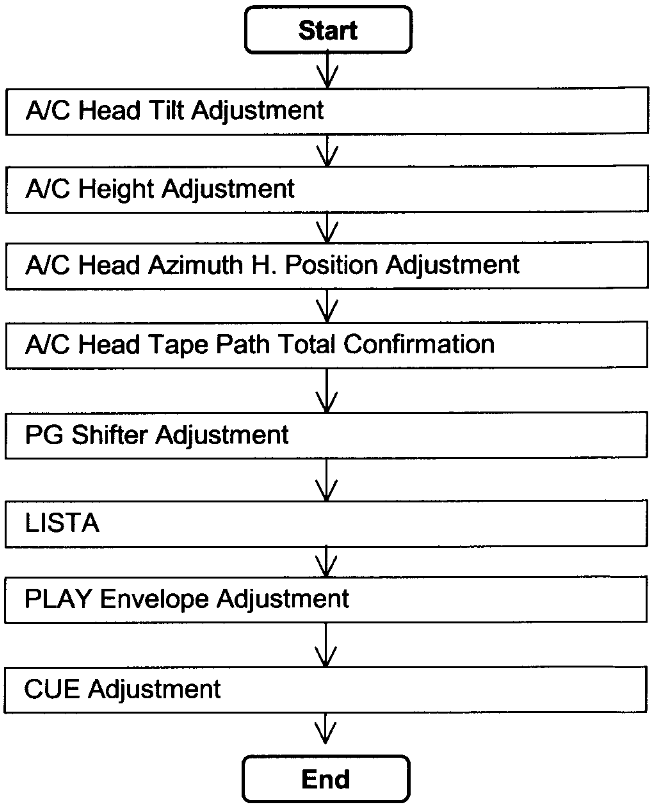
1. Remove the shield case from a new A/C Head and solder the each lead wires.
2. Install the shield case.
3. Install the A/C head to the A/C head plate by 2 screws (A). Then set to parallel the gap between A/C Head and A/C Head Plate.
4. Install the A/C Head unit.
5. Hang on the Head Height Adjustment Spring and tighten the Nut (C).
6. Clean the surface of the A/C Head.
7. A/C Head Adjustment is necessary.


W
P
P
③
②
①
W
④
P
W
B
⑤
⑦
⑧
W
⑥

A/C Head Side	Cable Color		Connector No.
1	PINK	YELLOW	P1
2	WHITE		
3	PINK	RED	
4	WHITE		
5	PINK	GREEN	
6	WHITE		
7	WHITE	YELLOW	P30
8	BLACK		

2-6. A/C Head Adjustment

1. After A/C Head Replacement, from the item of A/C Head Tilt to the item of A/C head horizontal position adjustment are necessary.
   Note: Keep loosen the hex screw (B) at the side of A/C head until A/C head height adjustment completion.
2. A/C Head Adjustment and Confirmation are shown in the following flow chart.


Start
A/C Head Tilt Adjustment
A/C Height Adjustment
A/C Head Azimuth H. Position Adjustment
A/C Head Tape Path Total Confirmation
PG Shifter Adjustment
LISTA
PLAY Envelope Adjustment
CUE Adjustment
End

2-7.Supply and Take-up Reel Unit Replacement

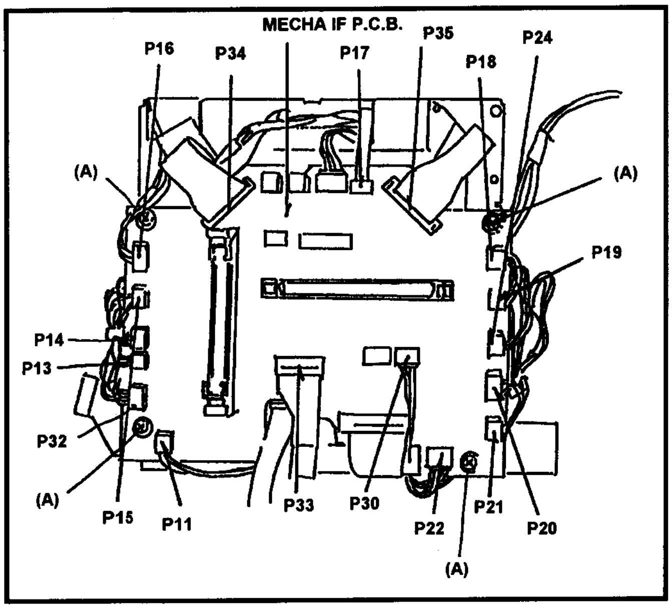
(Removal of Supply and Take-up Reel Unit)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the bottom panel.
4. Remove the connector P34 and P35 on the Mech. I/F board.
5. Rotate CW the Red Plastic Screw which is used for manual tape eject and load the S1 Post to make the space for screw (C).
6. Confirm that the S and T brake solenoid iron core are released.
7. Push the M Stopper Solenoid to release the M Stopper.
8. Remove 4 Screws (C), (D) and (E).
9. The Reel Table is hooked with inner rail. Slightly lift the Reel Table so that it does not touch the brake release arm. Then remove the Reel Table.

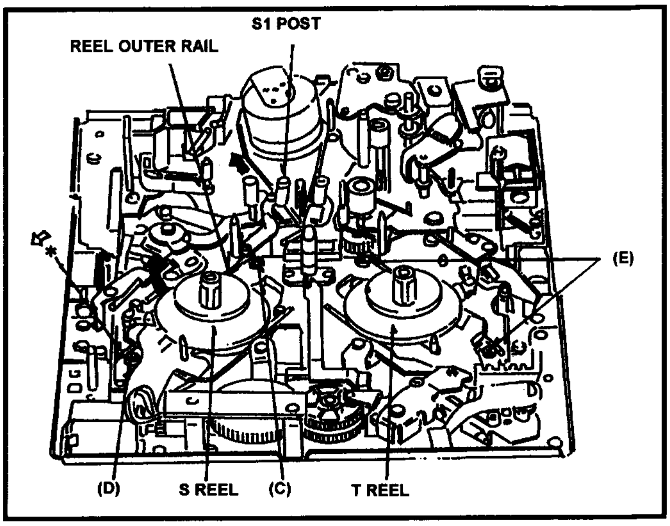
Note: Memorize the groove position of Reel Base which is inserted the pin of Drive Arm Unit. (The position can remember by the attached grease.)

(Installation of Supply and Take-up Reel Unit)

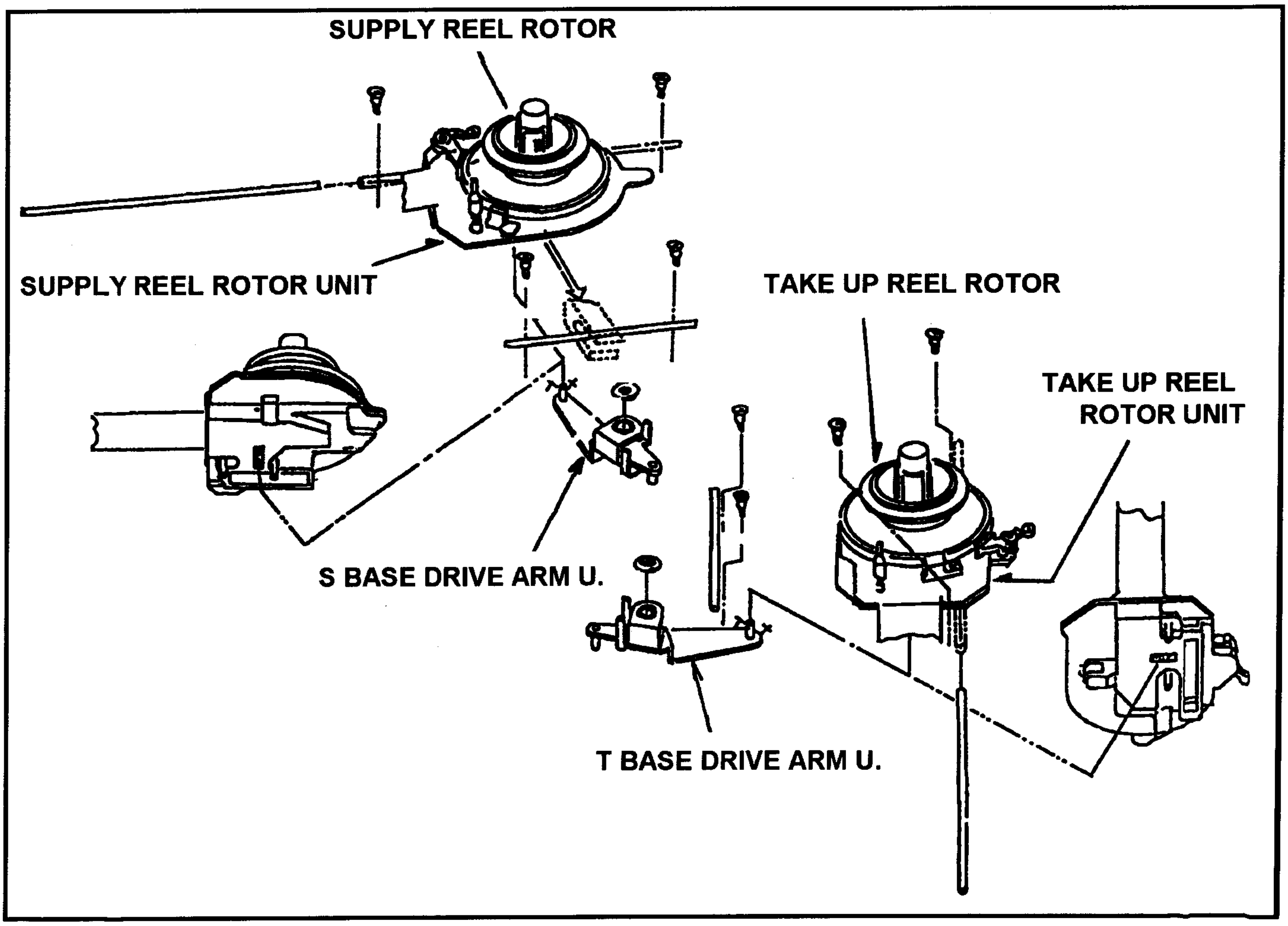
1. Insert the outer rail at the new Reel Table.
2. Hook the Reel Table Unit at the inner rail. Then install a Reel Table so that its groove is matched with the pin of Drive Arm Unit.
3. Tighten 4 screws (C), (D) and (E) then confirm the Reel Table moves smoothly on the Rail by hand.
4. Move the Reel Rotor Unit to front side by hand and pull up the iron core of M stopper solenoid
5. Unload completely by rotating the Red Plastic screw CCW.
6. Insert the flexible cable into P34 and P35 on the Mech. I/F board.
7. Confirm the Main Brake Torque. (Refer to the Main Brake Torque Confirmation.)
8. Adjust the Motor Torque Offset. (Refer to the Motor Torque Offset Adjustment.)
9. Confirm the Tension Value. (Refer to the Tension Confirmation.)


MECHA IF P.C.B.
P16
P34
P17
P35
P24
P18
(A)
(A)
P19
P14
P13
P32
(A)
P15
P11
P33
P30
P22
P21
P20
(A)

Mech. IF Board


S1 POST
REEL OUTER RAIL
(E)
(D)
S REEL
(C)
T REEL

Removal Reel Rotor Unit


SUPPLY REEL ROTOR
SUPPLY REEL ROTOR UNIT
TAKE UP REEL ROTOR
TAKE UP REEL ROTOR UNIT
S BASE DRIVE ARM U.
T BASE DRIVE ARM U.

Installation of Reel Rotor Unit

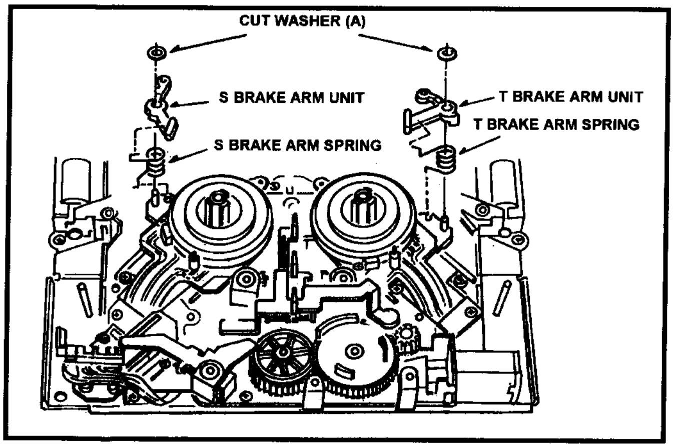
2-8. Supply and Take-up Brake Arm Unit Replacement

(Removal of Brake Arm Unit)

1. Remove the top panel.
2. Remove the front loading unit.
3. Push the supply and take-up brake solenoids to release brake.
4. Remove 2 cut washers (A) and remove supply and take-up brake arm unit.

(Installation of Brake Arm Unit)

1. Install new supply and take-up brake arm units as reverse order of removal.
   Note: Hook the brake arm spring at the position shown in the figure.
2. After the Brake Arm Unit Installation, confirm the Main Brake Torque. (Refer to the Main Brake Torque Confirmation.)

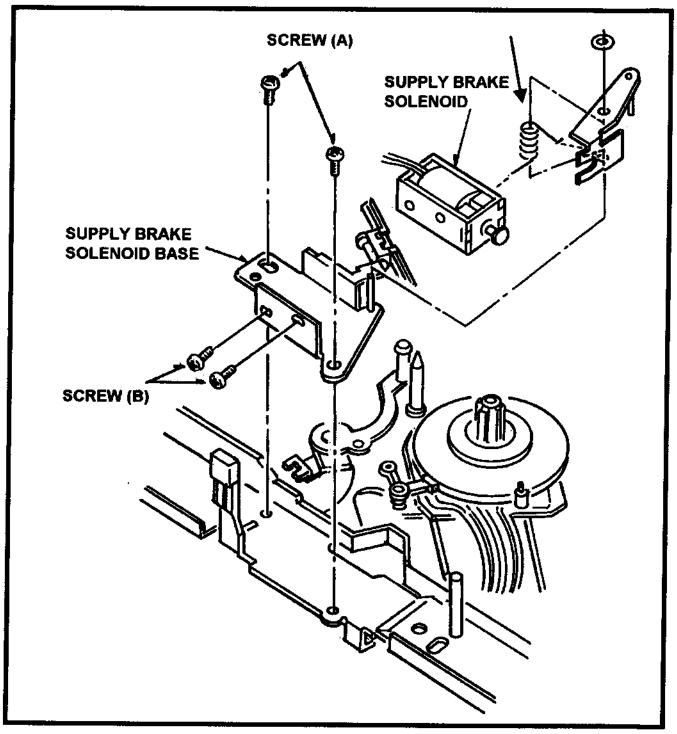

CUT WASHER (A)
S BRAKE ARM UNIT
T BRAKE ARM UNIT
T BRAKE ARM SPRING
S BRAKE ARM SPRING

Reel Brake Arm Unit Replacement

2-9. Supply Brake Solenoid Replacement and Adjustment

(Removal of Supply Brake Solenoid)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the bottom panel.
4. Remove the connector P15 on Mech. Interconnection board.
5. Remove 2 screws (A) and remove the Supply Brake Solenoid Base Unit.
6. Remove 2 screws (B) and remove the Supply Brake Solenoid from its unit.


SCREW (A)
SUPPLY BRAKE SOLENOID
SUPPLY BRAKE SOLENOID BASE
SCREW (B)

Supply Brake Solenoid Removal

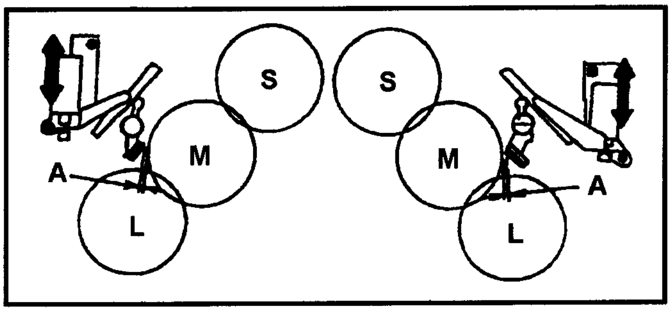
(Installation of Brake Solenoid)

1. Install a new supply brake solenoid as reverse order of its removal.
   Note: Set the supply brake spring at the position shown in the figure.
2. After installation, adjust following procedures.

(Adjustment Procedures)

1. Set the Reel Table at M cassette position.
2. Confirm the gap (A) between Brake pad and Turn table is 0.2 mm to 0.5 mm.

3. If the gap (A) is out of specification, loosen 2 screws and adjust brake solenoid unit as arrow direction so that the gap is in the specification.
4. After the above adjustment move the Reel Table to S cassette or L cassette position and confirm the gap is in the specification.

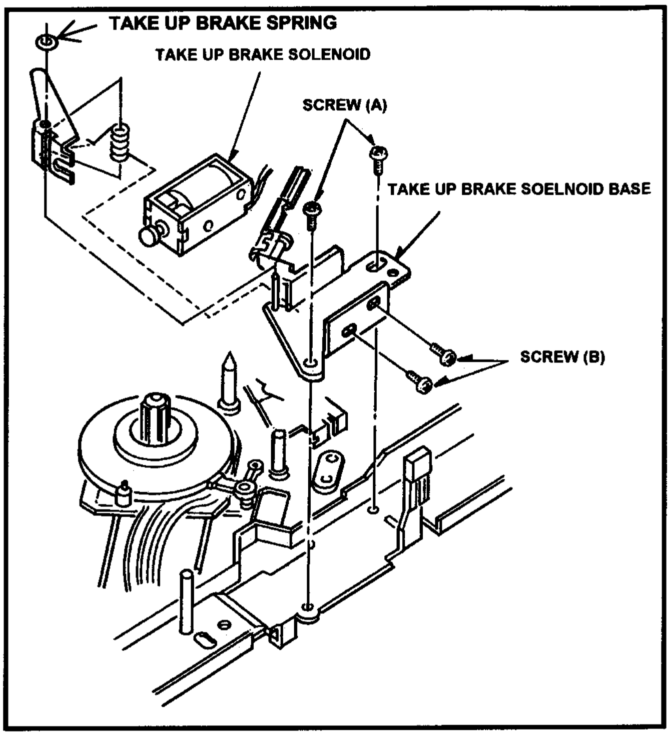


Brake Solenoid Position Adjustment

2-10 Take-up Brake Solenoid Replacement and Adjustment

(Removal of Take-up Brake Solenoid)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the bottom panel.
4. Remove the connector P18 on the Mech. Interconnection board.
5. Remove 2 screws (A) and remove the take-up brake solenoid base unit.
6. Remove 2 screws (B) and remove the Brake Solenoid from the Take-up Brake Solenoid Base Unit.



Take up Brake Solenoid Removal

(Installation)

1. Install a new Take up Brake Solenoid as reverse order of its removal.
   Note: Install a take up brake spring as shown in the figure.
2. After installation adjust the gap between brake pad and turn table. (Refer to Supply Brake Solenoid Replacement and Adjustment.)

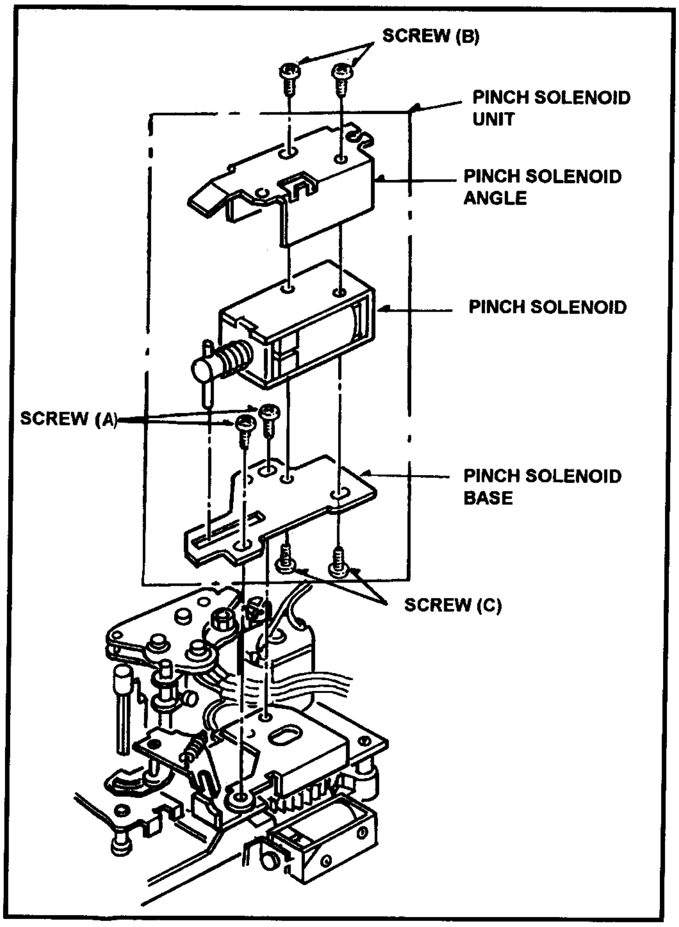
2-11. Pinch Solenoid Replacement

(Removal of Pinch Solenoid)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the bottom panel.
4. Remove 2 screws (A) and remove the Pinch Solenoid Unit.
5. Remove 2 screws (B) and remove the Pinch Solenoid Angle.
6. Remove 2 screws (C) and remove pinch solenoid base then remove Pinch Solenoid.

(Installation of Pinch Solenoid)

1. Install a new Pinch Solenoid as reverse order of its removal. After installation Pinch Solenoid Position Adjustment is necessary. (Refer to Pinch Solenoid Position Adjustment.)


SCREW (B)
PINCH SOLENOID UNIT
PINCH SOLENOID ANGLE
PINCH SOLENOID
SCREW (A)
PINCH SOLENOID BASE
SCREW (C)

Pinch Solenoid Removal

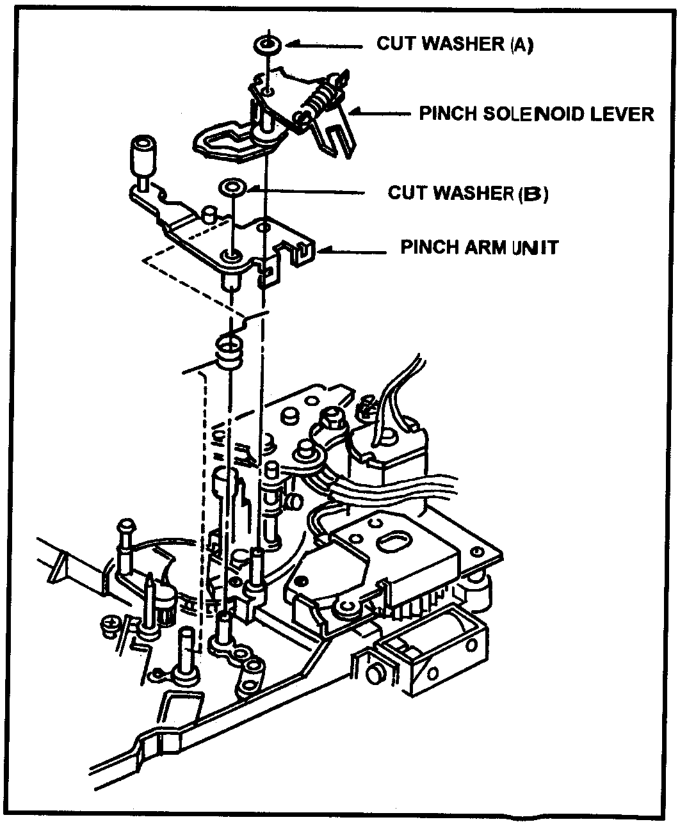
2-12. Pinch Arm Unit Replacement

(Removal of Pinch Arm Unit)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the bottom panel.
4. Disconnect the connector P20 on the Mech. Interconnection board.
5. Remove the Pinch Solenoid Unit.
6. Remove 2 Screws (A) and remove the Pinch Solenoid Unit.
7. Remove the cut washer (B) and remove the Pinch Solenoid Lever.
8. Remove the cut washer (C) and remove the Pinch Arm Unit.

(Installation of Pinch Arm Unit)

1. Install a new Pinch Solenoid as reverse order of its removal. After installation adjust Pinch Solenoid Position Adjustment. (Refer to Pinch Solenoid Position Adjustment.)


CUT WASHER (A)
PINCH SOLENOID LEVER
CUT WASHER (B)
PINCH ARM UNIT

Pinch Arm Unit Replacement

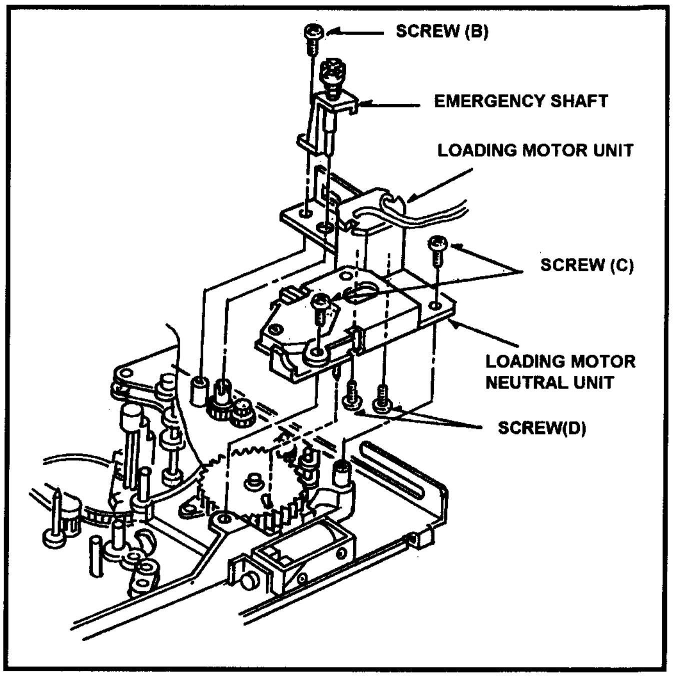
2-13 Loading Motor Replacement

(Removal of Loading Motor)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the bottom panel.
4. Disconnect the connector P21 on the Mech. I/F board. Which is shown in the Supply an Take-up Reel Unit Replacement.
5. Remove the Pinch Solenoid Unit. (Refer to Pinch Solenoid Replacement.)
6. Remove the screw (B) and remove the Emergency Shaft.
7. Remove 2 screws (C) and remove the Loading Motor Neutral Unit.
8. Remove 2 screws (D) and remove the Loading Motor.

(Installation of Loading Motor)

1. Install a new Loading Motor with 2 screws (D) to the Loading Motor Neutral Unit.
2. Install the Loading Motor unit with 2 screws (C). For this installation, be careful that the pin of Mode SW unit should be matched to groove position of main Cam Gear.
3. Install the emergency shaft with screw (B).
4. Install the Pinch Solenoid Unit. After installation adjust Pinch Solenoid Position Adjustment. (Refer to Pinch Solenoid Position Adjustment.)
5. Connect the connector P21.



Removal of Loading Motor

2-14. Mode Switch Unit Replacement

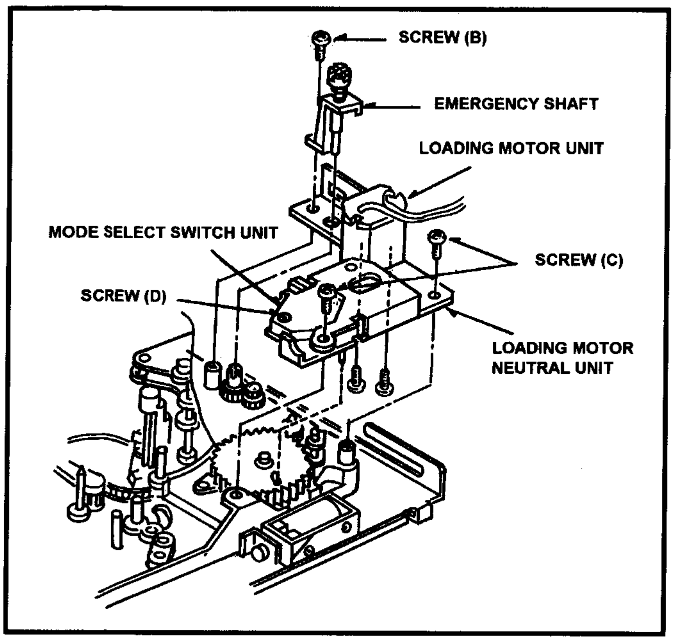
(Removal of Mode Switch Unit)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the bottom panel.
4. Disconnect P22 on the Mech. Interconnection board.
5. Remove the Pinch Solenoid Unit and Loading Motor Neutral Unit. (Refer to Loading Motor Replacement.)
6. Remove 2 screws (D) and remove the Mode Switch Unit from the Loading Motor Neutral Unit.

(Installation of Mode Switch Unit)

1. Install a new Mode Switch Unit in reverse order of its removal.

   Note: Set the pin of the Mode Switch to the groove of the Main Cam Gear.
2. After Pinch Solenoid Unit, adjust Pinch Solenoid Position Adjustment. (Refer to Pinch Solenoid Position Adjustment.)


SCREW (B)
EMERGENCY SHAFT
LOADING MOTOR UNIT
MODE SELECT SWITCH UNIT
SCREW (C)
SCREW (D)
LOADING MOTOR NEUTRAL UNIT

Removal of Mode Switch Unit

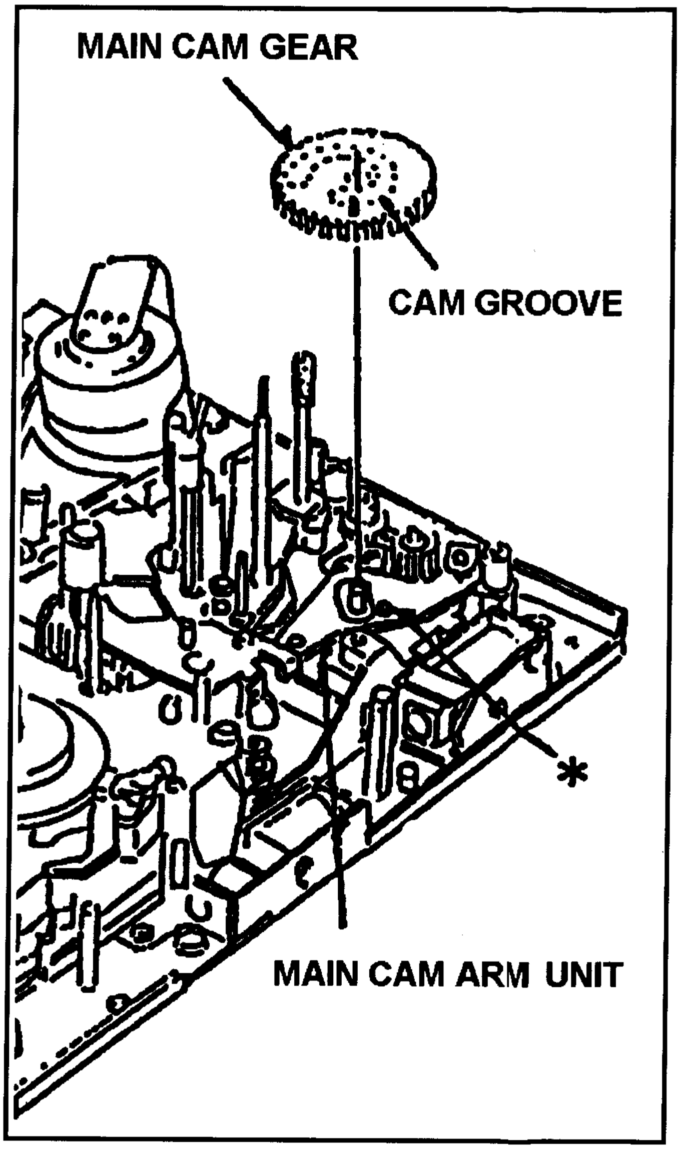
2-15. Main Cam Gear Replacement

(Removal of Main Cam Gear)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the Pinch Solenoid Unit and Loading Motor Neutral Unit. (Refer to Loading Motor Replacement and Pinch Arm Unit Replacement.)
4. Remove the Main Cam Gear.

(Installation of Main Cam Gear)

1. Install a new Main Cam Gear in reverse order of its removal. For this installation, set the pin of the Income Arm Unit to the groove of the Main Cam Gear.


MAIN CAM GEAR
CAM GROOVE
*
MAIN CAM ARM UNIT

Removal of Main Cam Gear

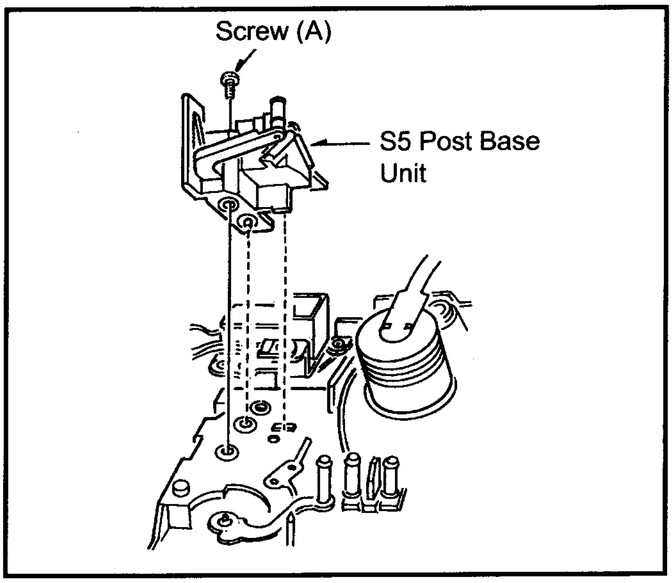
2-16. S5 Post Base Unit Replacement

(Removal of S5 Post Base Unit)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the screw (A) and remove the S5 Post Base Unit.

(Installation of S5 Base Unit)

1. Install the new S5 Post Base Unit as reverse order of its removal.
   (Note) Install the S5 Post by the position fix as shown in the figure.
2. After installation, Post Pre-adjustment and Linearity adjustment are necessary.


Screw (A)
S5 Post Base Unit

Removal of S5 Post Base Unit

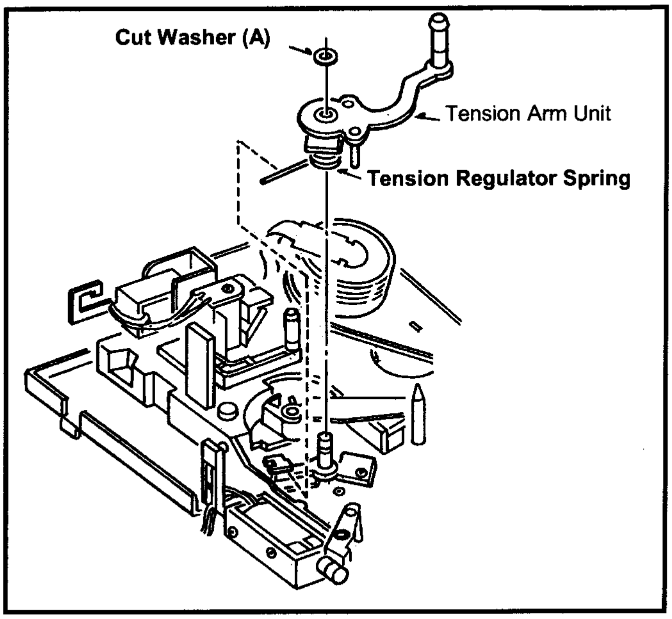
2-17. Replacement of Tension Arm Unit

(Removal of Tension Arm Unit)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the cut washer (A) and remove the tension regulator spring from its hook then remove the tension arm unit.

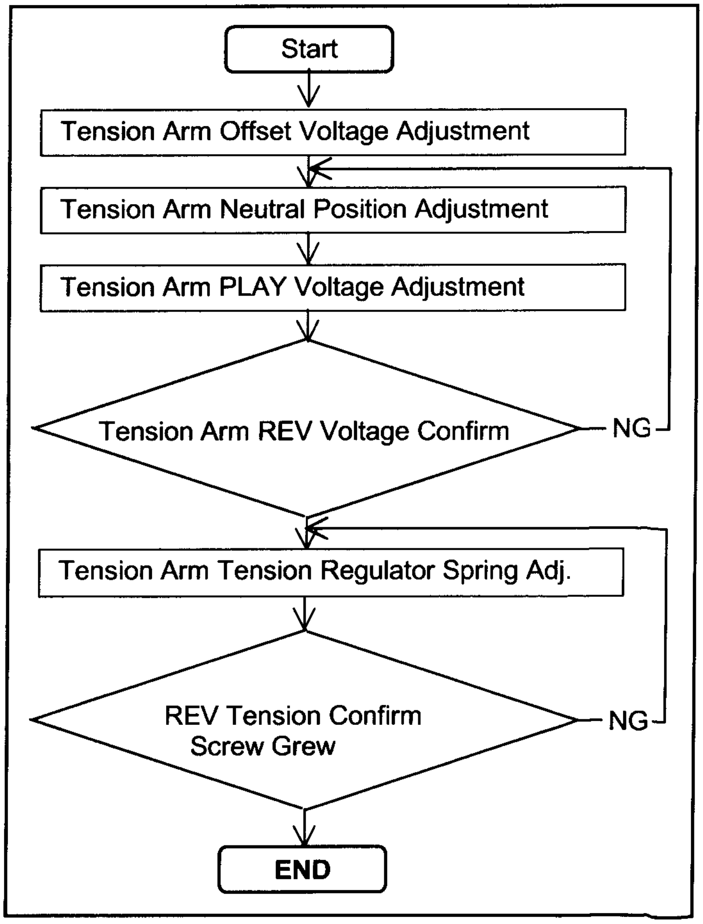
(Installation of Tension Arm Unit)

1. Install the new Tension Arm Unit as reverse order of its removal.
2. After installation adjust tension arm adjustment following the tension arm adjustment flow chart.


Cut Washer (A)
Tension Arm Unit
Tension Regulator Spring

Removal of Tension Arm Unit

Tension Arm Adjustment Flow Chart


Start
Tension Arm Offset Voltage Adjustment
Tension Arm Neutral Position Adjustment
Tension Arm PLAY Voltage Adjustment
Tension Arm REV Voltage Confirm
NG
Tension Arm Tension Regulator Spring Adj.
REV Tension Confirm
Screw Grew
NG
END

2-18. S1 Post Loading Arm Unit Replacement and Adjustment

(Removal of S1 Post Loading Arm Unit)

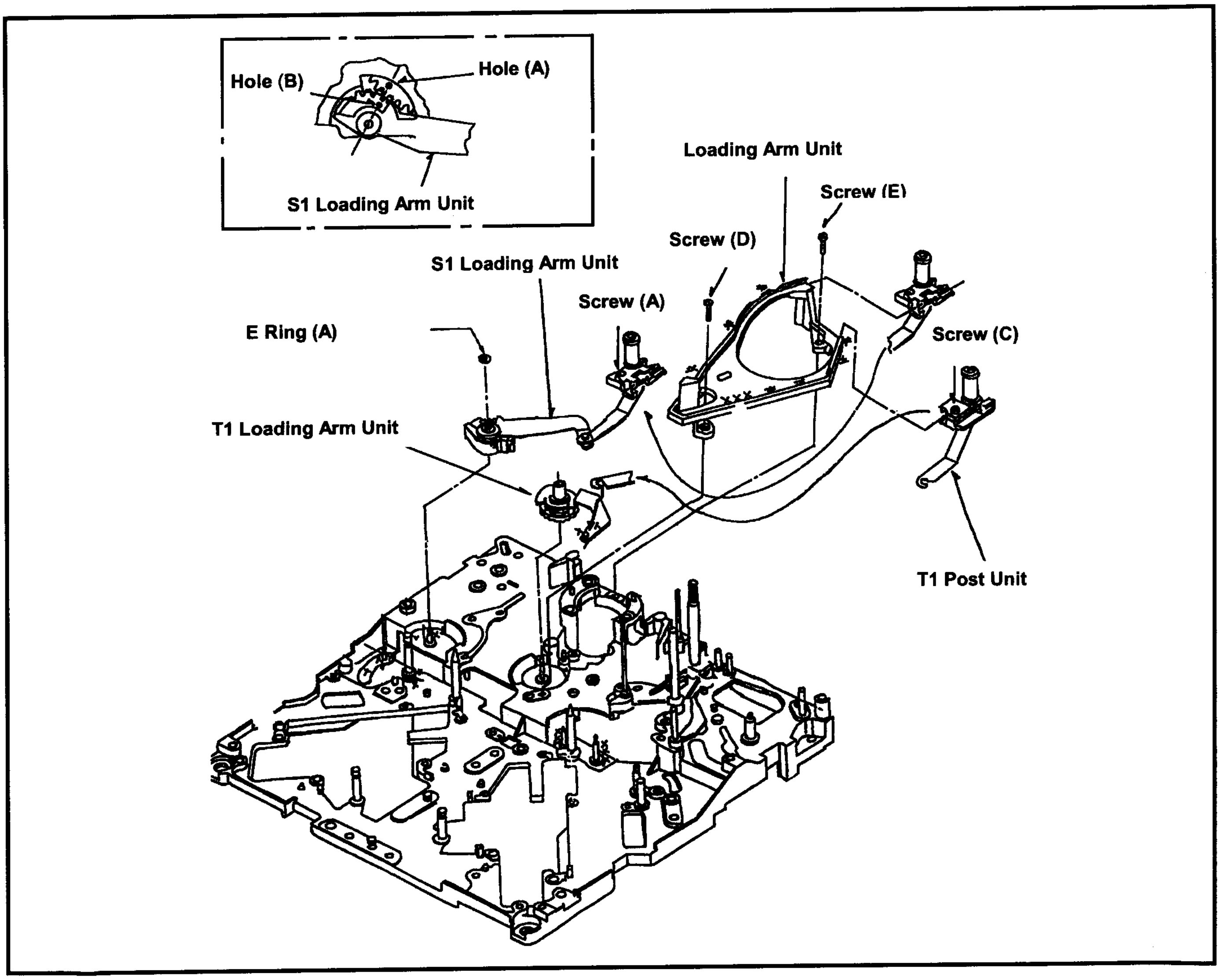
1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the S5 Post Base Unit. (Refer to S5 Post Base Unit Replacement.)
4. Remove the tension arm unit. (Refer to Tension Arm Unit Replacement.)
5. Remove the screw (A) and remove the S1 Post from the loading rail.
6. Remove the E ring (A) and remove the S1 Loading Arm Unit.

(Installation of S1 Post Loading Arm Unit)

1. Install a new S1 Post Loading Arm Unit as reverse order of removal. After its installation S1 Post Loading Arm Unit Phase Adjustment is necessary.
2. After its installation confirm the S1 Post moves smoothly on the loading rail. Then Adjust the Tension Arm and Linearity.

(Adjustment Procedure)

1. When S1 Post Loading Arm is installed, the hole (A) and (B) must be parallel.


Hole (B)
Hole (A)
S1 Loading Arm Unit
Loading Arm Unit
Screw (E)
Screw (D)
S1 Loading Arm Unit
Screw (A)
E Ring (A)
Screw (C)
T1 Loading Arm Unit
T1 Post Unit

S1 Post Loading Arm Unit Removal

2-19. T1 Boat Unit Replacement

(Removal of T1 Boat Unit)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the screw (C) and remove the T1 Post from the Loading Rail.
4. Remove the T1 Boat Unit from the T1 Loading Arm Unit.

(Installation of T1 Boat Unit)

1. Install a new T1 Boat Unit as reverse order of its removal.
2. After its installation, confirm the T1 Post moves on the Loading Rail. Then Linearity Adjustment is necessary.

2-20. T1 Loading Arm Unit Replacement and Adjustment

(Removal of T1 Loading Arm Unit)

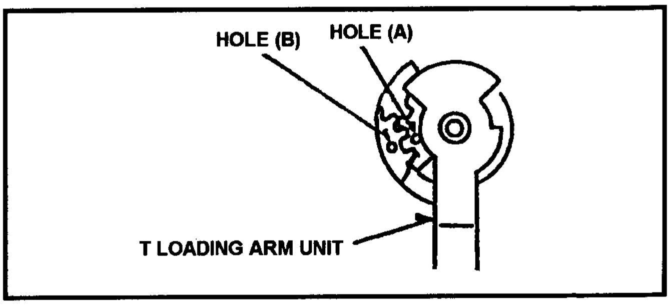
1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the cylinder unit. (Refer to the cylinder unit replacement.)
4. Rotate the emergency eject shaft CW to load the T1 Post and make a space to remove the screw (D) as shown in Fig. 6-15-1.
5. Remove the screw (A) and (C) then remove the S1 and T1 Posts from the Loading Rail.
6. Remove the screw (D) and (E) and remove the Loading Rail.
7. Remove the T1 Boat Unit from the T1 Loading Unit.

(Installation of T1 Loading Arm Unit)

1. Install a new T1 Loading Arm Unit as reverse order of its removal. For this installation the following adjustment is necessary.

(Adjustment Procedures)

1. Install T1 Loading Arm Unit so that the Hole (A) and Hole (B) are in parallel.
2. After installation, confirm that the T1 post moves smoothly on the Loading Rail. Then Linearity Adjustment is necessary.



T1 Loading Arm Unit Position Adjustment

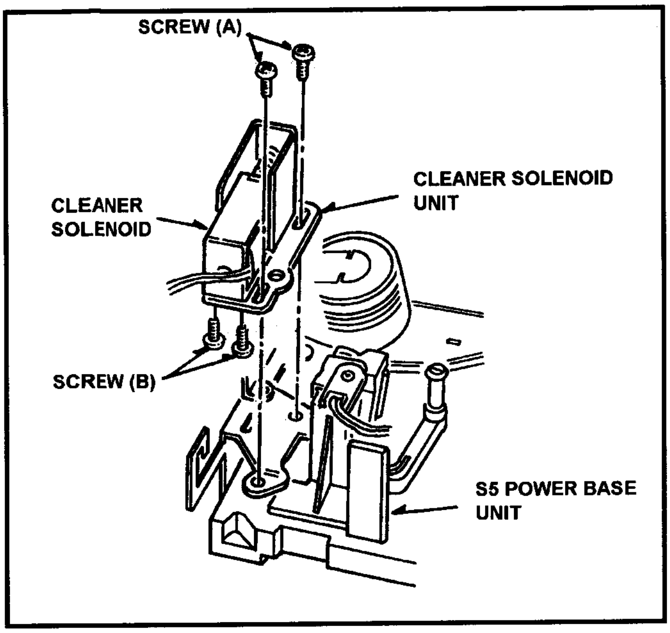
2-21.Cleaner Solenoid Replacement and Adjustment

(Removal of Cleaner Solenoid)

1. Remove the top panel.
2. Remove the Front Loading Unit.
3. Remove the connector P11 on the Mechanical Interconnection Board.
4. Remove two screws (A) and remove the Cleaner Solenoid Unit.
5. Remove two screws (B) and remove the Cleaner Solenoid.

(Installation of Cleaner Solenoid)

1. Install a new Cleaner Solenoid as reverse order of its installation.
2. After its installation adjust Cleaner Solenoid Position.


SCREW (A)
CLEANER SOLENOID UNIT
CLEANER SOLENOID
SCREW (B)
S5 POWER BASE UNIT

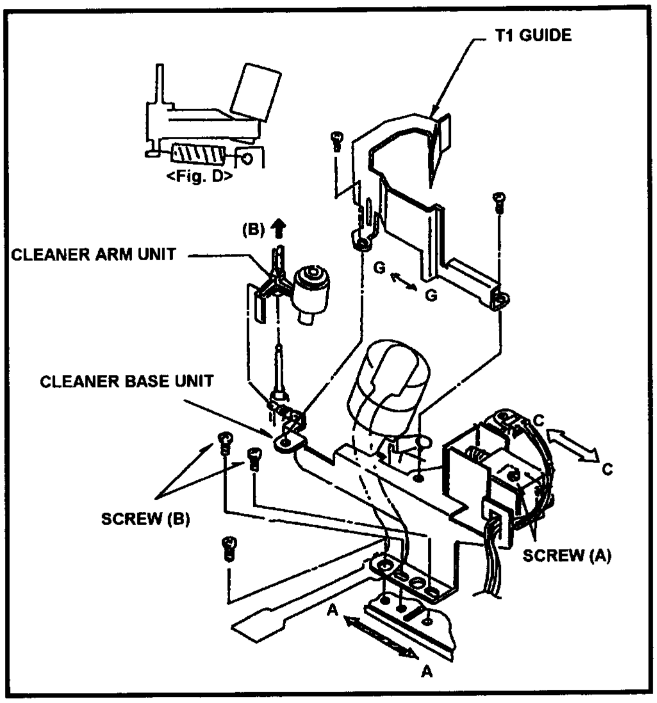
Cleaner Solenoid Replacement

2-22. Cleaner Solenoid Position Adjustment

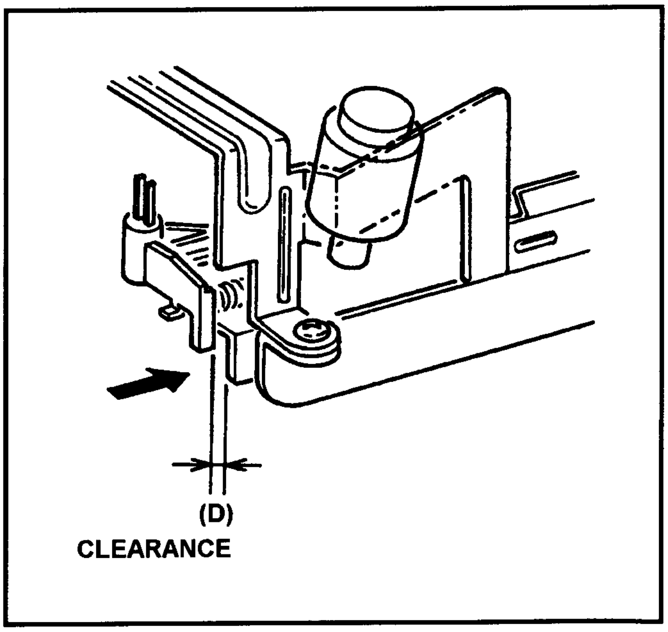
Tool

Eccentric Driver (VFK0357)

1. Push the Cleaner Solenoid Shaft and confirm the clearance between Cleaning Arm Unit and Cleaner Base Plate (D) is 0.5 mm to 0.7 mm.
2. If it is out of specification, loosen 2 screws (A) and move the cleaner solenoid arrow C direction and adjust the clearance (D) is in the specification.
3. Push the cleaner solenoid shaft and confirm that the cleaner roller touches the cylinder. Then confirm that the cleaner roller returns original position when the shaft is released.
4. Push the Solenoid shaft and rotate the cylinder and confirm that the cleaner roller is rotated by the cylinder movement.


T1 GUIDE
<Fig. D>
(B)
CLEANER ARM UNIT
G
G
CLEANER BASE UNIT
C
C
SCREW (B)
SCREW (A)
A
A

Cleaner Solenoid Position Adjustment


(D)
CLEARANCE

Cleaner Solenoid Position Adjustment

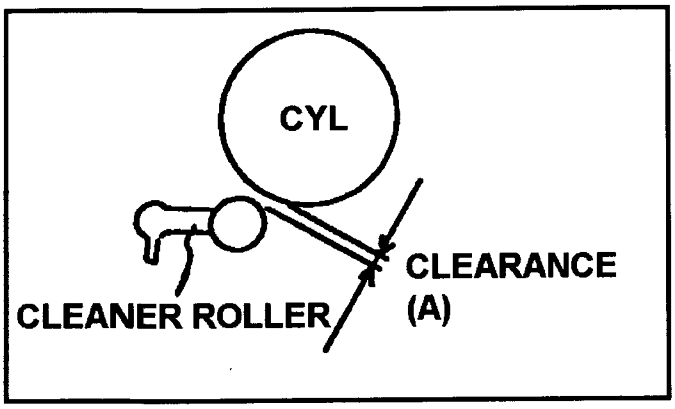
Note: If the Cleaner Base Plate is moved, Cleaner Roller Position Adjustment is necessary.

2-23. Cleaner Roller Position Adjustment

Tool

Eccentric Driver (VFK0357)

1. Confirm that the clearance (A) between cylinder unit and cleaner roller is 1.0 mm to 1.2 mm.
2. If it is out of specification loosen screw (B) and move the cleaner base unit and adjust its position by the eccentric driver.



Cleaner Roller Position Adjustment

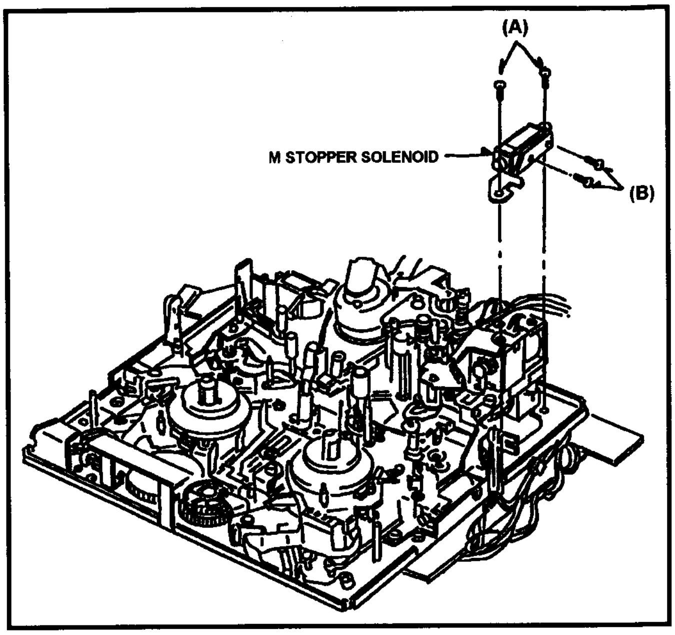
2-24. M Stopper Solenoid Replacement and Adjustment

(Removal of M Stopper Solenoid)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the connector P24 on the Mech. Interconnection board.
4. Remove 4 screws (A) and (B) and remove the M Stopper Solenoid.

(Installation of M Stopper Solenoid)

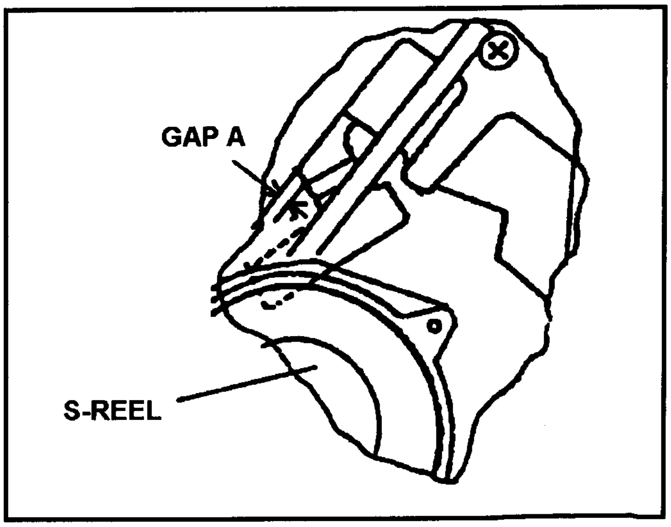
1. Install a new M Stopper Solenoid as reverse order of its removal.
2. After its installation following adjustment is necessary.



M Stopper Solenoid Removal

(Adjustment Procedures)

1. Set the Reel Table at L cassette position.
2. Release the M Stopper by pushing the M Stopper Solenoid Shaft.
3. Loosen the screw (A) and adjust the M Stopper Solenoid Unit Position so that the Gap (A) between Mech. Chassis and M Stopper is 1.1 mm to 1.3 mm.



M Stopper Solenoid Position Adjustment

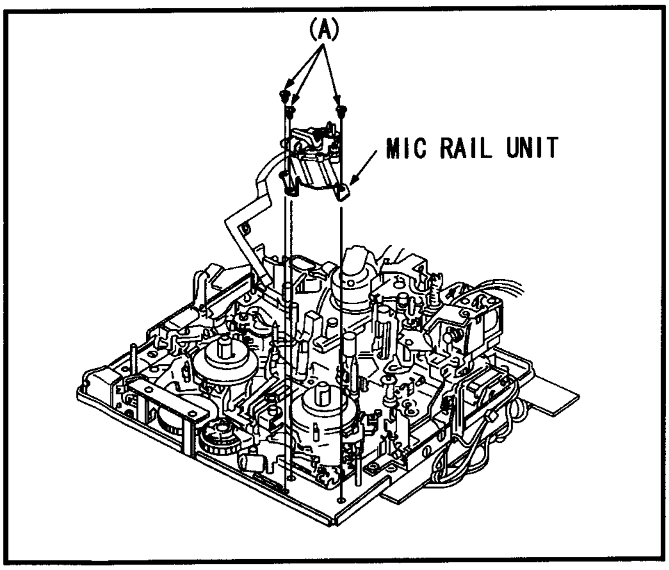
2-25. MIC Rail Unit Replacement

(Removal of MIC Rail Unit)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the bottom panel. (Refer to the bottom panel removal.)
4. Remove the connector P17 on the Mech. Interconnection board.
5. Remove the MIC Drive REV Spring.
6. Remove 3 screws and remove the MIC Rail Unit.

(Installation of MIC Rail Unit)

1. Install a new MIC Rail Unit as reverse order of its installation.
2. Confirm that M and L cassette touches MIC Rail Unit.



MIC Rail Unit Removal

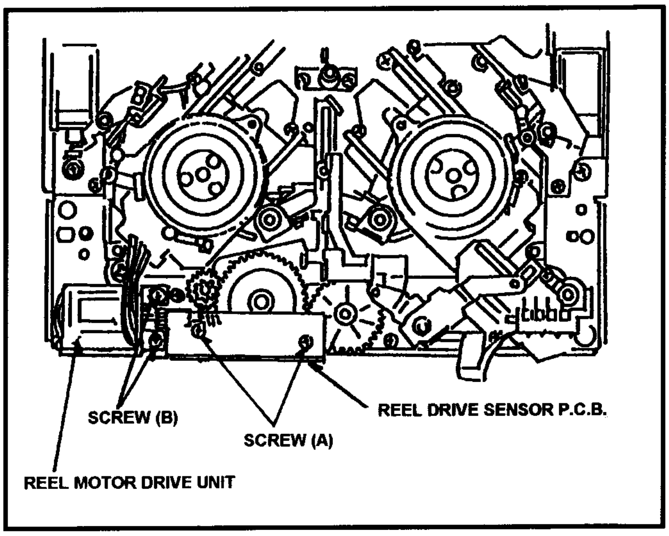
2-26. Reel Drive Motor Unit Replacement

(Removal of Reel Drive Motor Unit)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the connector P16 on the Mech. Interconnection board.
4. Remove 2 screws (A) and remove the Reel drive sensor board.
5. Remove 2 screws (B) and remove the Reel Drive Motor Unit.

(Installation of Reel Drive Motor Unit)

1. Install a new Reel Drive Motor Unit as reverse order of its removal.



Reel Drive Motor Unit Removal

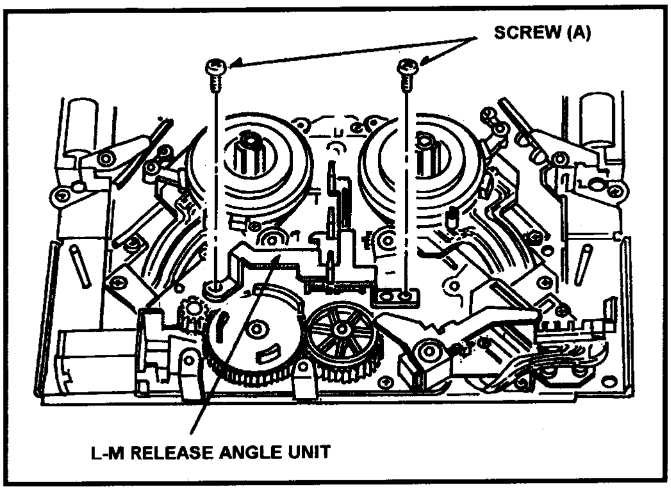
2-27. L-M Brake Release U. Replacement

(Installation of L-M Brake Release Unit)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the screw (A) and remove the L-M Brake Release Unit.

(Installation of L-M Brake Release Unit)

1. Install a new L-M Brake Release Unit as reverse order of its removal.

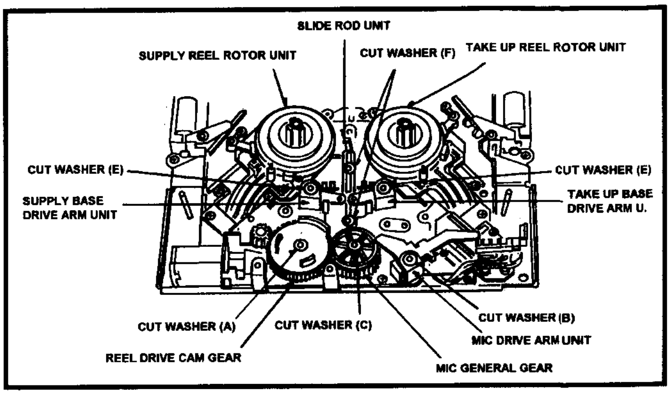

SCREW (A)
L-M RELEASE ANGLE UNIT

L-M Brake Release Unit Removal

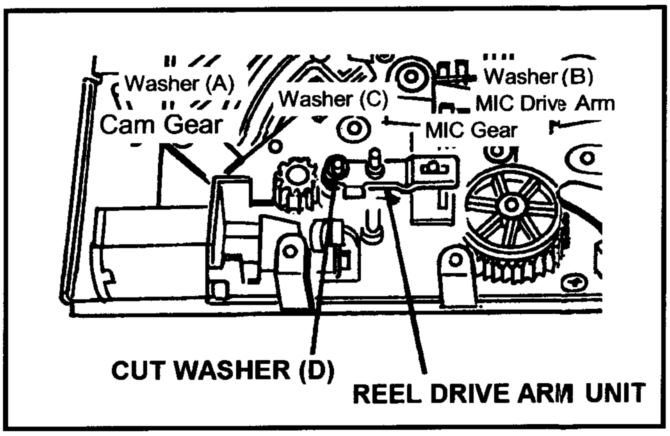
2-28. Slide Rod Unit Replacement and Adjustment

(Removal of Slide Rod Unit)

1. Remove the top panel.
2. Remove the front loading unit.
3. Remove the L-M Brake Release Unit. (Refer to L-M Brake Release Unit Replacement.)
4. Remove the Reel Drive Sensor board. (Refer to Reel Drive Motor Unit Replacement.)
5. Remove the cut washer (A) and remove the Reel Drive Cam Gear.
6. Remove the cut washer (B) and remove the MIC Drive Arm Unit.
7. Remove the cut washer © and remove the MIC intermittent gear.
8. Remove the cut washer (D) and remove the Reel Drive Arm Unit.
9. Remove the supply and take-up reel rotor unit. (Refer to Supply and Take-up Reel Table Unit Replacement.)
10. Remove the cut washer (E) and remove the supply and take-up side base drive arm unit.
11. Remove the cut washer (F) and remove the slide load.


SLIDE ROD UNIT
SUPPLY REEL ROTOR UNIT
CUT WASHER (F)
TAKE UP REEL ROTOR UNIT
CUT WASHER (E)
SUPPLY BASE DRIVE ARM UNIT
CUT WASHER (E)
TAKE UP BASE DRIVE ARM U.
CUT WASHER (A)
CUT WASHER (C)
REEL DRIVE CAM GEAR
CUT WASHER (B)
MIC DRIVE ARM UNIT
MIC GENERAL GEAR

Slide Rod Unit Removal


Washer (A)
Cam Gear
Washer (C)
Washer (B)
MIC Drive Arm
MIC Gear
CUT WASHER (D)
REEL DRIVE ARM UNIT

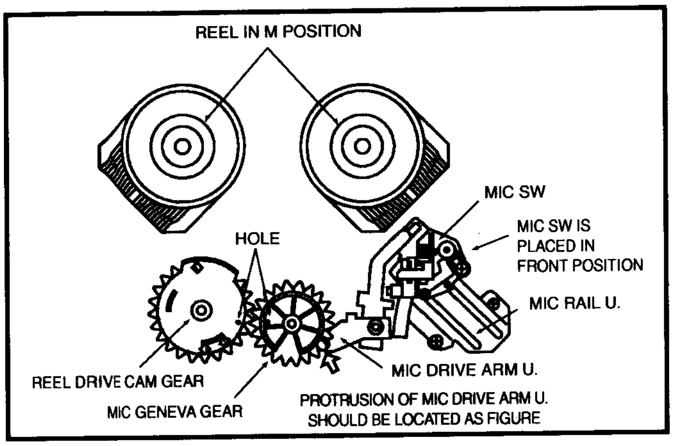
Reel Drive Arm Unit Removal

(Installation of Slide Rod Unit)

1. Install a new Slide Rod Unit as reverse order of its removal.
2. When Reel Drive Cam Gear and MIC Intermittent Gear are installed phase adjustment is necessary.

(Adjustment Procedures)

1. Install a MIC Intermittent Gear.
2. Set the Reel Rotor Unit at M Cassette Position by hand.
3. Install a MIC Drive Arm Unit.
4. Rotate the MIC intermittent Gear by hand so that the Distinction SW is as close as possible.


REEL IN M POSITION
MIC SW
MIC SW IS PLACED IN FRONT POSITION
HOLE
MIC RAIL U.
MIC DRIVE ARM U.
REEL DRIVE CAM GEAR
MIC GENEVA GEAR
PROTRUSION OF MIC DRIVE ARM U. SHOULD BE LOCATED AS FIGURE

Gear Position

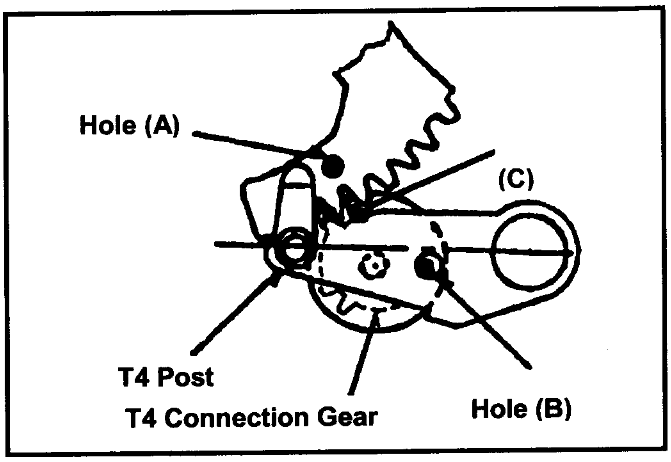
5. Install a Reel Drive Cam Gear so that the its hole is at MIC intermittent gear hole.
6. Install 3 cut washers (A), (B) and (C).

Adjustment Note:

1) Close the Reel Table to M Cassette position.
2) Set the MIC SW (Distinction SW) to the nearest position from the Reel.
3) MIC Drive Arm Unit Pin position is as shown in the above figure.
4) Reel Drive Came Gear Hole and MIC Intermittent Gear phase are matched.

2-29. T4 Post Position Adjustment

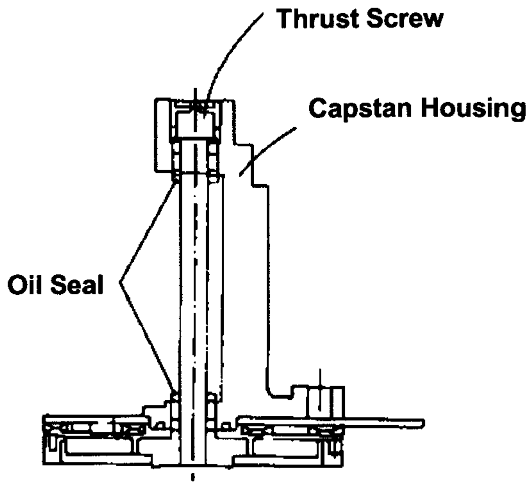
1. Set the VTR unloading condition.
2. Confirm the T4 post hole is at the T4 connection gear (B).
3. Confirm that © and hole (A) position is as shown in the figure.
4. If the T4 post position is incorrect adjust following procedures.

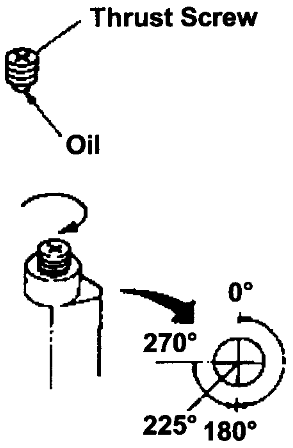

Hole (A)
(C)
T4 Post
T4 Connection Gear
Hole (B)

T4 Post Position Adjustment

2-30. Thrust Screw Replacement and Adjustment

1. Remove the Thrust Screw.
2. Supply oil (VFK0906) as shown in the figure and set the capstan housing.
3. While rotating the capstan shaft CCW tighten the thrust screw CW slowly and stop it when the rotation becomes smoothly.
4. Rotate another 180 degrees or 270 degrees from the stop position of item 3.
5. Grew the thrust screw.
6. Confirm the oil seal as shown in figure.


Thrust Screw
Capstan Housing
Oil Seal

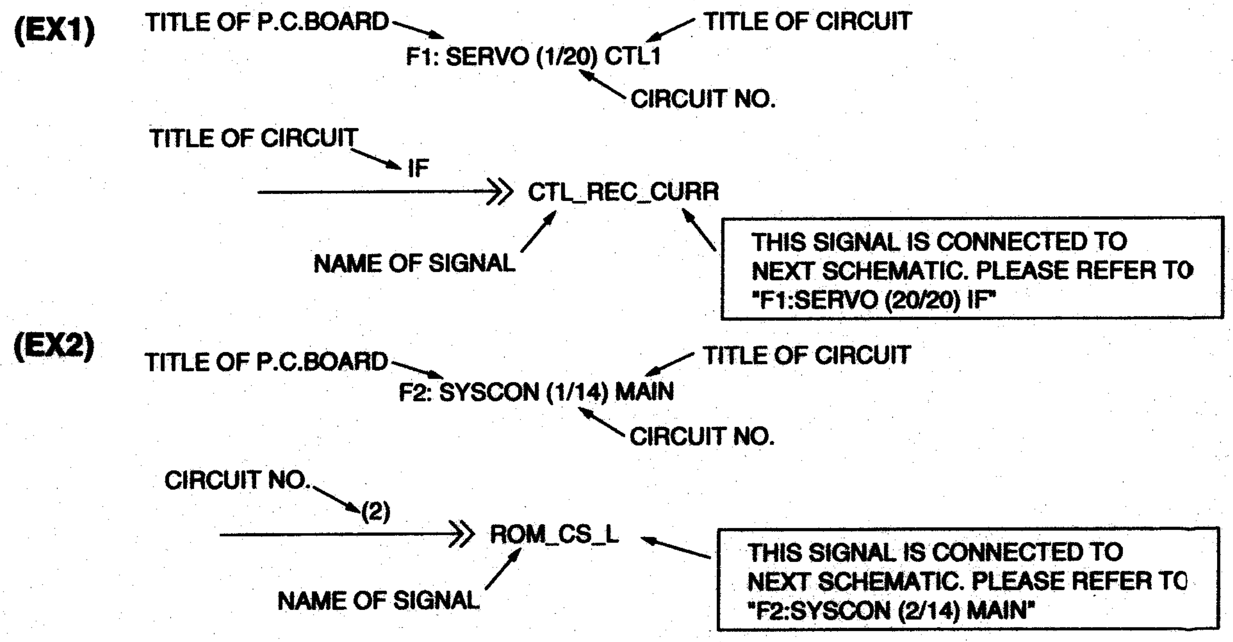

Thrust Screw
Oil
0°
270°
225°
180°

SECTION 4

SCHEMATIC DIAGRAMS

Note:

1. **Do not use the part number shown on the schematic diagram or P.C.Board layout for ordering.**
   The correct part number for ordering is shown in the Exploded Views/Parts List section.
2. **Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μF), P=μμF.**


(EX1)
TITLE OF P.C.BOARD
TITLE OF CIRCUIT
F1: SERVO (1/20) CTL1
CIRCUIT NO.
TITLE OF CIRCUIT
IF
CTL_REC_CURR
NAME OF SIGNAL
THIS SIGNAL IS CONNECTED TO NEXT SCHEMATIC. PLEASE REFER TO "F1:SERVO (20/20) IF"
(EX2)
TITLE OF P.C.BOARD
TITLE OF CIRCUIT
F2: SYSCON (1/14) MAIN
CIRCUIT NO.
CIRCUIT NO.
(2)
ROM_CS_L
NAME OF SIGNAL
THIS SIGNAL IS CONNECTED TO NEXT SCHEMATIC. PLEASE REFER TO "F2:SYSCON (2/14) MAIN"

*** mark ⇒ Parts value, see table in the schematic diagram.**

(EX:)

	AJ-D940P	AJ-D940E	
R2018	10K	10K	← 10KΩ
R2019	20K	*PAT	← No part

NOTE:
DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER SHOWN IN THE PARTS LIST.
AND MAY BE SLIGHTLY DIFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

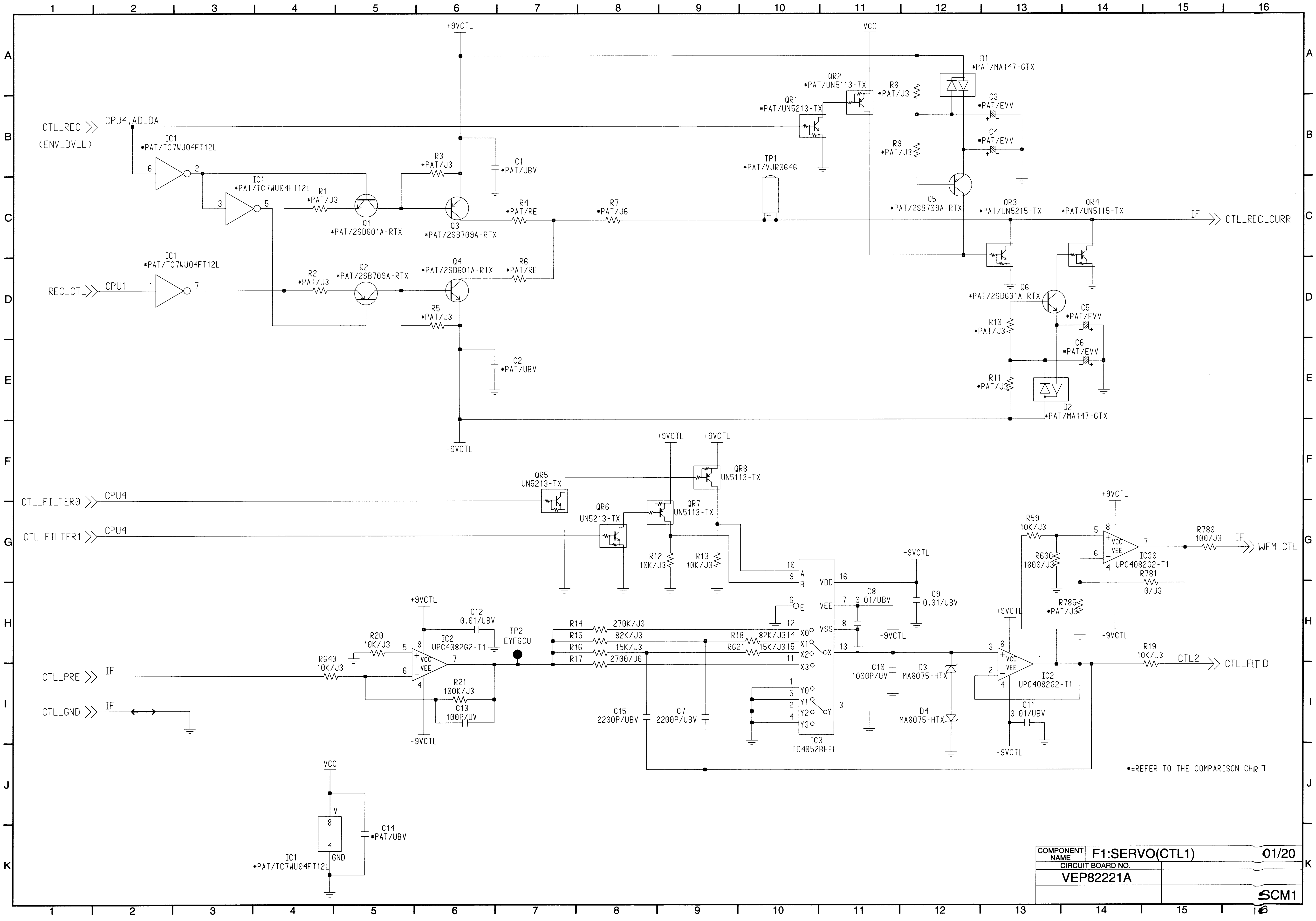
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CONTENTS

F1: SERVO (1/20) CTL1 .... SCM01
F1: SERVO (2/20) CTL2 .... SCM02
F1: SERVO (3/20) CTL3 .... SCM03
F1: SERVO (4/20) CAP FG SCM04
F1: SERVO (5/20) S FG SCM05
F1: SERVO (6/20) T FG SCM06
F1: SERVO (7/20) AD DA SCM07
F1: SERVO (8/20) CPU1 .... SCM08
F1: SERVO (9/20) CPU2 .... SCM09
F1: SERVO (10/20) CPU3 .... SCM10
F1: SERVO (11/20) CPU4 .... SCM11
F1: SERVO (12/20) ATF1 .... SCM12
F1: SERVO (13/20) ATF2 .... SCM13
F1: SERVO (14/20) ATF3 .... SCM14
F1: SERVO (15/20) SW1 .... SCM15
F1: SERVO (16/20) SW2 .... SCM16
F1: SERVO (17/20) CA CY DRY SCM17
F1: SERVO (18/20) RL DRV SCM18
F1: SERVO (19/20) POWER SCM19
F1: SERVO (20/20) IF SCM20
F2: SYSCON (1/13) MAIN SCM21
F2: SYSCON (2/13) MAIN SCM22
F2: SYSCON (3/13) MAIN SCM23
F2: SYSCON (4/13) MAIN SCM24
F2: SYSCON (5/13) MAIN SCM25
F2: SYSCON (6/13) I/F SCM26
F2: SYSCON (7/13) I/F SCM27
F2: SYSCON (8/13) I/F SCM28
F2: SYSCON (9/13) I/F SCM29
F2: SYSCON (10/13) AV I/F SCM30
F2: SYSCON (11/13) AV I/F SCM31
F2: SYSCON (12/13) AV I/F SCM32
F2: SYSCON (13/13) SYSCON SCM33
F3: NON_TRK (1/31) MOTHER SCM34
F3: NON_TRK (2/31) ECL_INBUF SCM35
F3: NON_TRK (3/31) EDA_PB_L13 .... SCM36
F3: NON_TRK (4/31) EDA_PB_L24 .... SCM37
F3: NON_TRK (5/31) EDA_DV_L SCM38
F3: NON_TRK (6/31) EDA_PB_R13 .... SCM39
F3: NON_TRK (7/31) EDA_PB_R24 .... SCM40
F3: NON_TRK (8/31) EDA_DV_R SCM41
F3: NON_TRK (9/31) FIFO_CTRL_PB_L13 ... SCM42
F3: NON_TRK (10/31) FIFO_CTRL_PB_L24 . SCM43
F3: NON_TRK (11/31) FIFO_CTRL_DV_L .. SCM44
F3: NON_TRK (12/31) FIFO_CTRL_PB_R13 .. SCM45
F3: NON_TRK (13/31) FIFO_CTRL_PB_R24 .. SCM46
F3: NON_TRK (14/31) FIFO_CTRL_DV_R .. SCM47
F3: NON_TRK (15/31) NTRK_CTRL SCM48
F3: NON_TRK (16/31) INPUT_BUF SCM49
F3: NON_TRK (17/31) OUTPUT_BUF SCM50
F3: NON_TRK (18/31) 24/25_MOD_L SCM51
F3: NON_TRK (19/31) 24/25_MOD_R SCM52
F3: NON_TRK (20/31) ECL_OUTBUF SCM53
F3: NON_TRK (21/31) TRP_GEN SCM54
F3: NON_TRK (22/31) DV_UCOM_CON .. SCM55
F3: NON_TRK (23/31) DV_UCOM_BUF ... SCM56
F3: NON_TRK (24/31) AV/DV_UCOM_I/F ... SCM57
F3: NON_TRK (25/31) DIF/DV_UCOM_I/F .. SCM58
F3: NON_TRK (26/31) DIF_UCOM_I/F SCM59
F3: NON_TRK (27/31) AV_UCOM_I/F SCM60
F3: NON_TRK (28/31) CLK_BUF SCM61
F3: NON_TRK (29/31) ENV_DET SCM62
F3: NON_TRK (30/31) SYNC_COUNTER ... SCM63
F3: NON_TRK (31/31) POWER SCM64
DV_UCOM (NON TRK) SCM65
F4: SDI_MAIN (1/22) MOTHER SCM66
F4: SDI_MAIN (2/22) S2P SCM67
F4: SDI_MAIN (3/22) DECODER SCM68
F4: SDI_MAIN (4/22) ROUNDING SCM69
F4: SDI_MAIN (5/22) 411FILTER SCM70
F4: SDI_MAIN (6/22) DLYFIFO SCM71
F4: SDI_MAIN (7/22) IN_BUFF SCM72
F4: SDI_MAIN (8/22) DAC SCM73
F4: SDI_MAIN (9/22) SLICER SCM74
F4: SDI_MAIN (10/22) SLCR_CTL SCM75
F4: SDI_MAIN (11/22) OUT_BUFF SCM76
F4: SDI_MAIN (12/22) YC_MIX SCM77
F4: SDI_MAIN (13/22) ENCODER SCM78
F4: SDI_MAIN (14/22) CHAR_ADD SCM79
F4: SDI_MAIN (15/22) EDH_ADD SCM80
F4: SDI_MAIN (16/22) P2S-1 .... SCM81
F4: SDI_MAIN (17/22) P2S-2 .... SCM82
F4: SDI_MAIN (18/22) SYS_IF SCM83
F4: SDI_MAIN (19/22) SUB_CON-1 .... SCM84
F4: SDI_MAIN (20/22) SUB_CON-2 .... SCM85
F4: SDI_MAIN (21/22) EDH_DELAY SCM86
F4: SDI_MAIN (22/22) EE_THROUGH SCM87
F5: PB (1/17) CON SCM88
F5: PB (2/17) PP SCM89
F5: PB (3/17) MEM_PP SCM90
F5: PB (4/17) CAS SCM91
F5: PB (5/17) FT1 .... SCM92

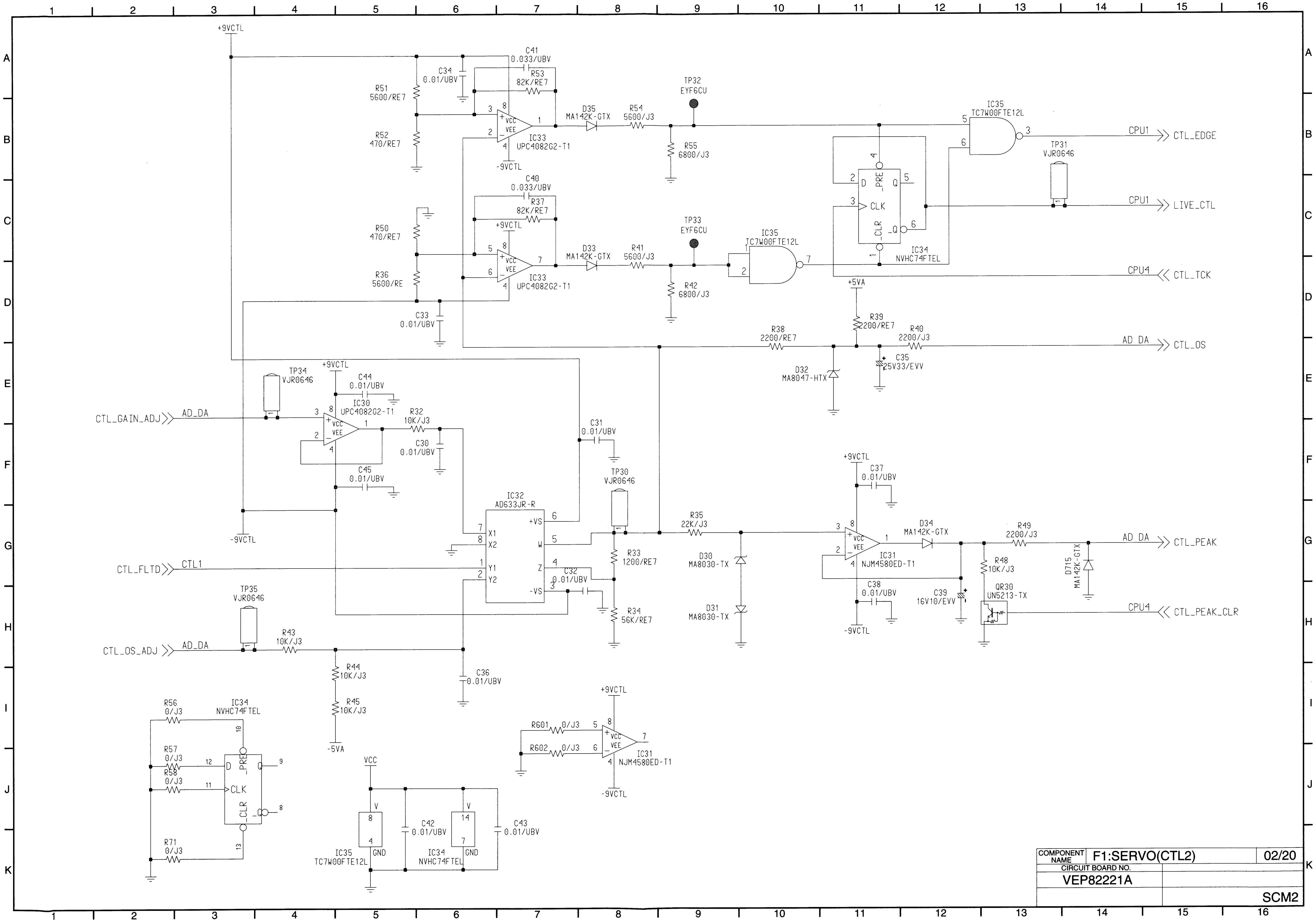
F5: PB (6/17) EDA ... SCM93
F5: PB (7/17) FT2 ... SCM94
F5: PB (8/17) IN_PLL ... SCM95
F5: PB (9/17) M16 ... SCM96
F5: PB (10/17) M16_BUF ... SCM97
F5: PB (11/17) DPRAM ... SCM98
F5: PB (12/17) AV_IF ... SCM99
F5: PB (13/17) VDAT ... SCM100
F5: PB (14/17) V_BLK ... SCM101
F5: PB (15/17) UNLOCK ... SCM102
F5: PB (16/17) PPLAY ... SCM103
F5: PB (17/17) F420 ... SCM104
DV_UCOM (PB) (1/1) ... SCM105
V_BLK (1/5) V_BLK_SUB (SHEET1) ... SCM106
V_BLK (2/5) V_BLK_SUB (SHEET2) ... SCM107
V_BLK (3/5) VBLK ... SCM108
V_BLK (4/5) PB_PLL ... SCM109
V_BLK (5/5) VITC & TEL_TXT ... SCM110
F6: V_OUT (1/44) V_OUT (SHEET 1) ... SCM111
F6: V_OUT (2/44) V_OUT (SHEET 2) ... SCM112
F6: V_OUT (3/44) V_OUT (SHEET 3) ... SCM113
F6: V_OUT (4/44) V_OUT (SHEET 4) ... SCM114
F6: V_OUT (5/44) V_OUT (SHEET 5) ... SCM115
F6: V_OUT (6/44) SYNC_GEN_LSI ... SCM116
F6: V_OUT (7/44) SYNC_GEN_REF_PLL ... SCM117
F6: V_OUT (8/44) SYNC_GEN_SC_PLL ... SCM118
F6: V_OUT (9/44) SYNC_GEN_HLOCKPLL ... SCM119
F6: V_OUT (10/44) REG1 ... SCM120
F6: V_OUT (11/44) D_IN_BUF0 ... SCM121
F6: V_OUT (12/44) PWR_RESET ... SCM122
F6: V_OUT (13/44) COMB ... SCM123
F6: V_OUT (14/44) DLY_FIFO ... SCM124
F6: V_OUT (15/44) TBC_LSI ... SCM125
F6: V_OUT (16/44) TBC_FIFO ... SCM126
F6: V_OUT (17/44) CLK_BUFF0 ... SCM127
F6: V_OUT (18/44) TBC_CTL1 ... SCM128
F6: V_OUT (19/44) PROC_CTL1 ... SCM129
F6: V_OUT (20/44) INT1 ... SCM130
F6: V_OUT (21/44) VLP ... SCM131
F6: V_OUT (22/44) INT_FIFO ... SCM132
F6: V_OUT (23/44) INT_CTL1 ... SCM133
F6: V_OUT (24/44) INT_SEL ... SCM134
F6: V_OUT (25/44) PROC_MAIN ... SCM135
F6: V_OUT (26/44) PROC_SUB ... SCM136
F6: V_OUT (27/44) PROC_SEL ... SCM137
F6: V_OUT (28/44) PROC_SEL1 ... SCM138
F6: V_OUT (29/44) DOWN_CON ... SCM139
F6: V_OUT (30/44) SYS_H_MAIN ... SCM140
F6: V_OUT (31/44) SYS_H_SUB ... SCM141
F6: V_OUT (32/44) TRS_ADD1 ... SCM142
F6: V_OUT (33/44) TCCLK2 ... SCM143
F6: V_OUT (34/44) SYS_H_DA ... SCM144
F6: V_OUT (35/44) SYS_H_ENC1 ... SCM145
F6: V_OUT (36/44) SDI_SEL ... SCM146
F6: V_OUT (37/44) D_OUT_BUFF ... SCM147
F6: V_OUT (38/44) CLK_BUFF ... SCM148
F6: V_OUT (39/44) SYS_IF1 ... SCM149
F6: V_OUT (40/44) TERMINATOR ... SCM150
F6: V_OUT (41/44) CMPOSITE_ENC2 ... SCM151
F6: V_OUT (42/44) CMPSITE_WFM_BUFF ... SCM152
F6: V_OUT (43/44) REG2_1 ... SCM153
F6: V_OUT (44/44) CFDET ... SCM154
4:2:2 DA SUB (1/12) 844_DA3 ... SCM155
4:2:2 DA SUB (2/12) 422_DEC3 ... SCM156
4:2:2 DA SUB (3/12) D_FIL3 ... SCM157
4:2:2 DA SUB (4/12) DA_CONV3 ... SCM158
4:2:2 DA SUB (5/12) MATRIX3 ... SCM159
4:2:2 DA SUB (6/12) CMPNENT_BUFF3 ... SCM160
4:2:2 DA SUB (7/12) REG3_3 ... SCM161
4:2:2 DA SUB (8/12) INPUT_BUFF3 ... SCM162
4:2:2 DA SUB (9/12) TIMING_CTL3 ... SCM163
4:2:2 DA SUB (10/12) IP_CONV3 ... SCM164
4:2:2 DA SUB (11/12) ENV3 ... SCM165
4:2:2 DA SUB (12/12) ENV3 ... SCM166
F7: A_PROC (1/21) CONNECTOR ... SCM167
F7: A_PROC (2/21) IOB ... SCM168
F7: A_PROC (3/21) SYSIO ... SCM169
F7: A_PROC (4/21) CLKBUF ... SCM170
F7: A_PROC (5/21) PLL ... SCM171
F7: A_PROC (6/21) PLL2 ... SCM172
F7: A_PROC (7/21) AIDLY ... SCM173
F7: A_PROC (8/21) FIFOCNT ... SCM174
F7: A_PROC (9/21) IOCNT ... SCM175
F7: A_PROC (10/21) SLOW1 ... SCM176
F7: A_PROC (11/21) SLOW2 ... SCM177
F7: A_PROC (12/21) CNT1 ... SCM178
F7: A_PROC (13/21) CNT2 ... SCM179
F7: A_PROC (14/21) AMEM ... SCM180
F7: A_PROC (15/21) REC_SRC ... SCM181
F7: A_PROC (16/21) TBCDLY ... SCM182
F7: A_PROC (17/21) DIF1 ... SCM183
F7: A_PROC (18/21) DIF2 ... SCM184
F7: A_PROC (19/21) DIF3 ... SCM185
F7: A_PROC (20/21) DIF-IC ... SCM186
F7: A_PROC (21/21) DIFCON ... SCM187
F8: A_ADDA (1/18) CH1_INPUT ... SCM188

F8: A_ADDA (2/18) CH2_INPUT SCM189
F8: A_ADDA (3/18) CH3_INPUT SCM190
F8: A_ADDA (4/18) CH4_INPUT SCM191
F8: A_ADDA (5/18) CH12_AD SCM192
F8: A_ADDA (6/18) CH34_AD SCM193
F8: A_ADDA (7/18) CH12_DA SCM194
F8: A_ADDA (8/18) CH34_DA SCM195
F8: A_ADDA (9/18) CH1_OUTPUT SCM196
F8: A_ADDA (10/18) CH2_OUTPUT SCM197
F8: A_ADDA (11/18) CH3_OUTPUT SCM198
F8: A_ADDA (12/18) CH4_OUTPUT SCM199
F8: A_ADDA (13/18) MONILR_DA SCM200
F8: A_ADDA (14/18) MONIL_OUTPUT SCM201
F8: A_ADDA (15/18) MONIR_OUTPUT SCM202
F8: A_ADDA (16/18) HP_OUTPUT SCM203
F8: A_ADDA (17/18) P10 .... SCM204
F8: A_ADDA (18/18) CONNECTOR SCM205
H1: CUE (1/7) SCM206
H1: CUE (2/7) SCM207
H1: CUE (3/7) SCM208
H1: CUE (4/7) SCM209
H1: CUE (5/7) SCM210
H1: CUE (6/7) SCM211
H1: CUE (7/7) SCM212
H2/H3/H4: EQ (1/8) SCM213
H2/H3/H4: EQ (2/8) SCM214
H2/H3/H4: EQ (3/8) SCM215
H2/H3/H4: EQ (4/8) SCM216
H2/H3/H4: EQ (5/8) SCM217
H2/H3/H4: EQ (6/8) SCM218
H2/H3/H4: EQ (7/8) SCM219
H2/H3/H4: EQ (8/8) SCM220
HEAD_AMP (1/2) SCM221
HEAD_AMP (2/2) SCM222
MOTHER (1/13) SCM223
MOTHER (2/13) SCM224
MOTHER (3/13) SCM225
MOTHER (4/13) SCM226
MOTHER (5/13) SCM227
MOTHER (6/13) SCM228
MOTHER (7/13) SCM229
MOTHER (8/13) SCM230
MOTHER (9/13) SCM231
MOTHER (10/13) SCM232
MOTHER (11/13) SCM233
MOTHER (12/13) SCM234
MOTHER (13/13) SCM235
V/S_JACK (1/4) SCM236
V/S_JACK (2/4) SCM237
V/S_JACK (3/4) SCM238
V/S_JACK (4/4) SCM239
POWER_1 (1/1) SCM240
POWER_2 (1/2) SCM241
POWER_2 (2/2) SCM242
MECHA_I/F (1/4) SCM243
MECHA_I/F (2/4) SCM244
MECHA_I/F (3/4) SCM245
MECHA_I/F (4/4) SCM246
CARRIGE (1/1) SCM247
AUDIO_JACK (1/1) SCM248
AES/EBU (1/1) SCM249
UP_FRONT_1 (1/1) SCM250
FRONT CPU (1/4) CPU SCM251
FRONT CPU (2/4) P10 .... SCM252
FRONT CPU (3/4) DIAL/AD SCM253
FRONT CPU (4/4) CONNECTOR SCM254
FRONT CPU SUB (1/1) SCM255
FRONT_SW (1/4) CONTROL SCM256
FRONT_SW (2/4) LED SCM257
FRONT_SW (3/4) SW SCM258
FRONT_SW (4/4) VFD SCM259
FRONT_VR2 (1/1) SCM260



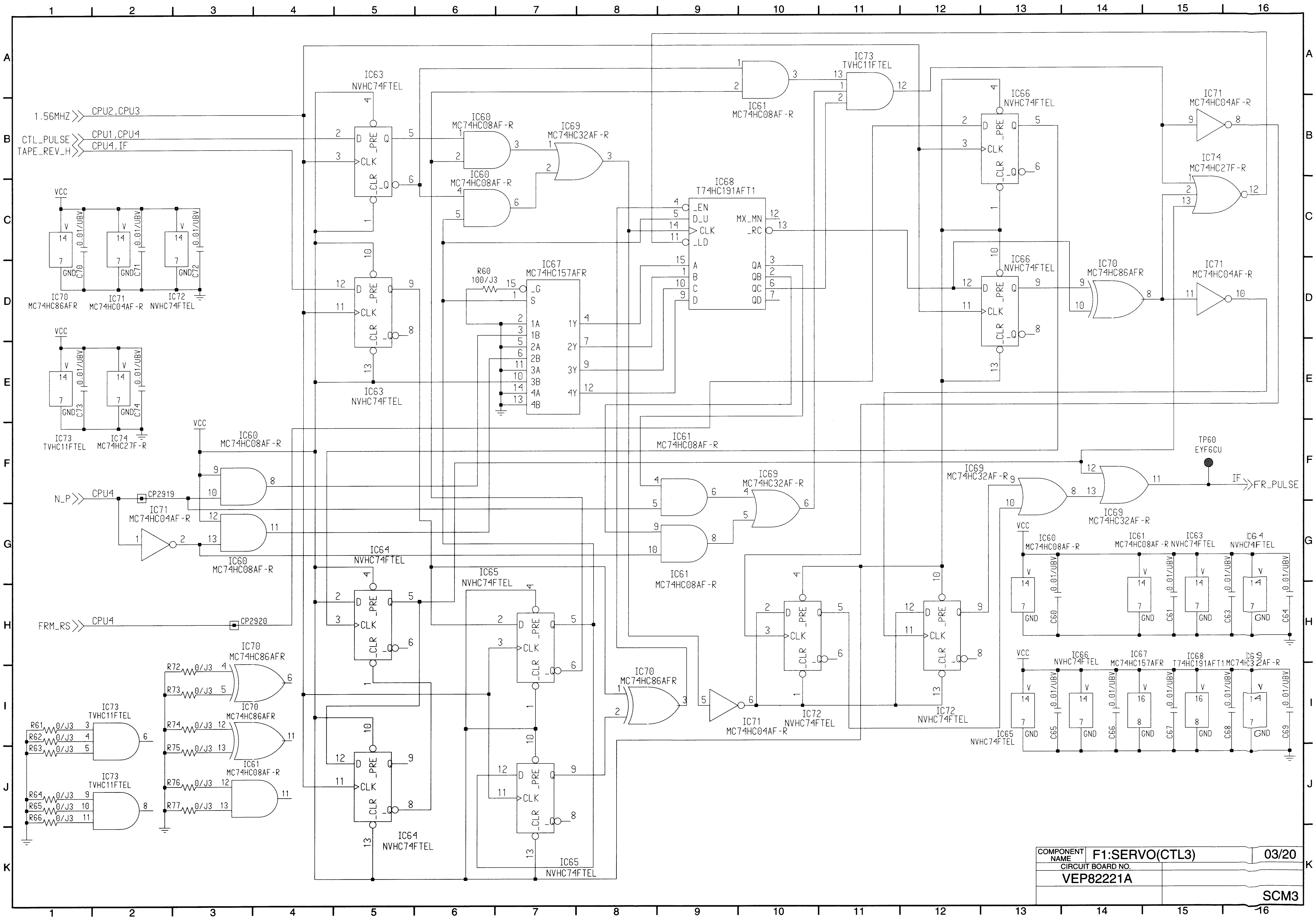
+9VCTL
VCC
-9VCTL
CTL_REC
(ENV_DV_L)
CPU4,AD_DA
REC_CTL
CPU1
IC1
*PAT/TC7WU04FT12L
R1 *PAT/J3
R2 *PAT/J3
R3 *PAT/J3
R4 *PAT/RE
R5 *PAT/J3
R6 *PAT/RE
R7 *PAT/J6
R8 *PAT/J3
R9 *PAT/J3
R10 *PAT/J3
R11 *PAT/J3
Q1 *PAT/2SD601A-RTX
Q2 *PAT/2SB709A-RTX
Q3 *PAT/2SB709A-RTX
Q4 *PAT/2SD601A-RTX
Q5 *PAT/2SB709A-RTX
Q6 *PAT/2SD601A-RTX
C1 *PAT/UBV
C2 *PAT/UBV
C3 *PAT/EVV
C4 *PAT/EVV
C5 *PAT/EVV
C6 *PAT/EVV
D1 *PAT/MA147-GTX
D2 *PAT/MA147-GTX
QR1 *PAT/UN5213-TX
QR2 *PAT/UN5113-TX
QR3 *PAT/UN5215-TX
QR4 *PAT/UN5115-TX
TP1 *PAT/VJR0646
IF
CTL_REC_CURR
CTL_FILTER0
CTL_FILTER1
CPU4
QR5 UN5213-TX
QR6 UN5213-TX
QR7 UN5113-TX
QR8 UN5113-TX
R12 10K/J3
R13 10K/J3
IC3 TC4052BFEL
A B E VDD VEE VSS X0 X1 X2 X3 X Y0 Y1 Y2 Y3 Y
C8 0.01/UBV
C9 0.01/UBV
C10 1000P/UV
D3 MA8075-HTX
D4 MA8075-HTX
R14 270K/J3
R15 82K/J3
R16 15K/J3
R17 2700/J6
R18 82K/J3
R621 15K/J3
C15 2200P/UBV
C7 2200P/UBV
CTL_PRE
CTL_GND
R640 10K/J3
R20 10K/J3
IC2 UPC4082G2-T1
C12 0.01/UBV
TP2 EYF6CU
R21 100K/J3
C13 100P/UV
C11 0.01/UBV
CTL2
CTL_FIT D
R19 10K/J3
R59 10K/J3
R600 1800/J3
R785 *PAT/J3
IC30 UPC4082G2-T1
R780 100/J3
R781 0/J3
WFM_CTL
C14 *PAT/UBV
GND
V
*=REFER TO THE COMPARISON CHRT

COMPONENT NAME	F1:SERVO(CTL1)	01/20
CIRCUIT BOARD NO.		
VEP82221A		
		SCM1


+9VCTL
C41
0.033/UBV
R53
82K/RE7
C34
0.01/UBV
R51
5600/RE7
R52
470/RE7
IC33
UPC4082G2-T1
-9VCTL
D35
MA142K-GTX
R54
5600/J3
TP32
EYF6CU
R55
6800/J3
IC35
TC7W00FTE12L
CPU1
CTL_EDGE
TP31
VJR0646
CPU1
LIVE_CTL
IC34
NVHC74FTEL
D
_PRE
Q
CLK
_CLR
_Q
C40
0.033/UBV
R37
82K/RE7
+9VCTL
R50
470/RE7
R36
5600/RE
IC33
UPC4082G2-T1
D33
MA142K-GTX
R41
5600/J3
TP33
EYF6CU
R42
6800/J3
IC35
TC7W00FTE12L
CPU4
CTL_TCK
+5VA
C33
0.01/UBV
R39
2200/RE7
R38
2200/RE7
R40
2200/J3
AD DA
CTL_OS
C35
25V33/EVV
D32
MA8047-HTX
TP34
VJR0646
+9VCTL
C44
0.01/UBV
IC30
UPC4082G2-T1
CTL_GAIN_ADJ
AD_DA
R32
10K/J3
C30
0.01/UBV
C45
0.01/UBV
-9VCTL
C31
0.01/UBV
TP30
VJR0646
IC32
AD633JR-R
X1
X2
Y1
Y2
+VS
W
Z
-VS
C32
0.01/UBV
R33
1200/RE7
R34
56K/RE7
R35
22K/J3
D30
MA8030-TX
D31
MA8030-TX
+9VCTL
C37
0.01/UBV
IC31
NJM4580ED-T1
C38
0.01/UBV
-9VCTL
D34
MA142K-GTX
C39
16V10/EVV
R49
2200/J3
R48
10K/J3
D715
MA142K-GTX
QR30
UN5213-TX
AD DA
CTL_PEAK
CPU4
CTL_PEAK_CLR
CTL_FLTD
CTL1
TP35
VJR0646
CTL_OS_ADJ
AD_DA
R43
10K/J3
R44
10K/J3
R45
10K/J3
-5VA
C36
0.01/UBV
R56
0/J3
IC34
NVHC74FTEL
R57
0/J3
R58
0/J3
R71
0/J3
+9VCTL
R601
0/J3
R602
0/J3
IC31
NJM4580ED-T1
-9VCTL
VCC
C42
0.01/UBV
C43
0.01/UBV
IC35
TC7W00FTE12L
IC34
NVHC74FTEL
GND
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

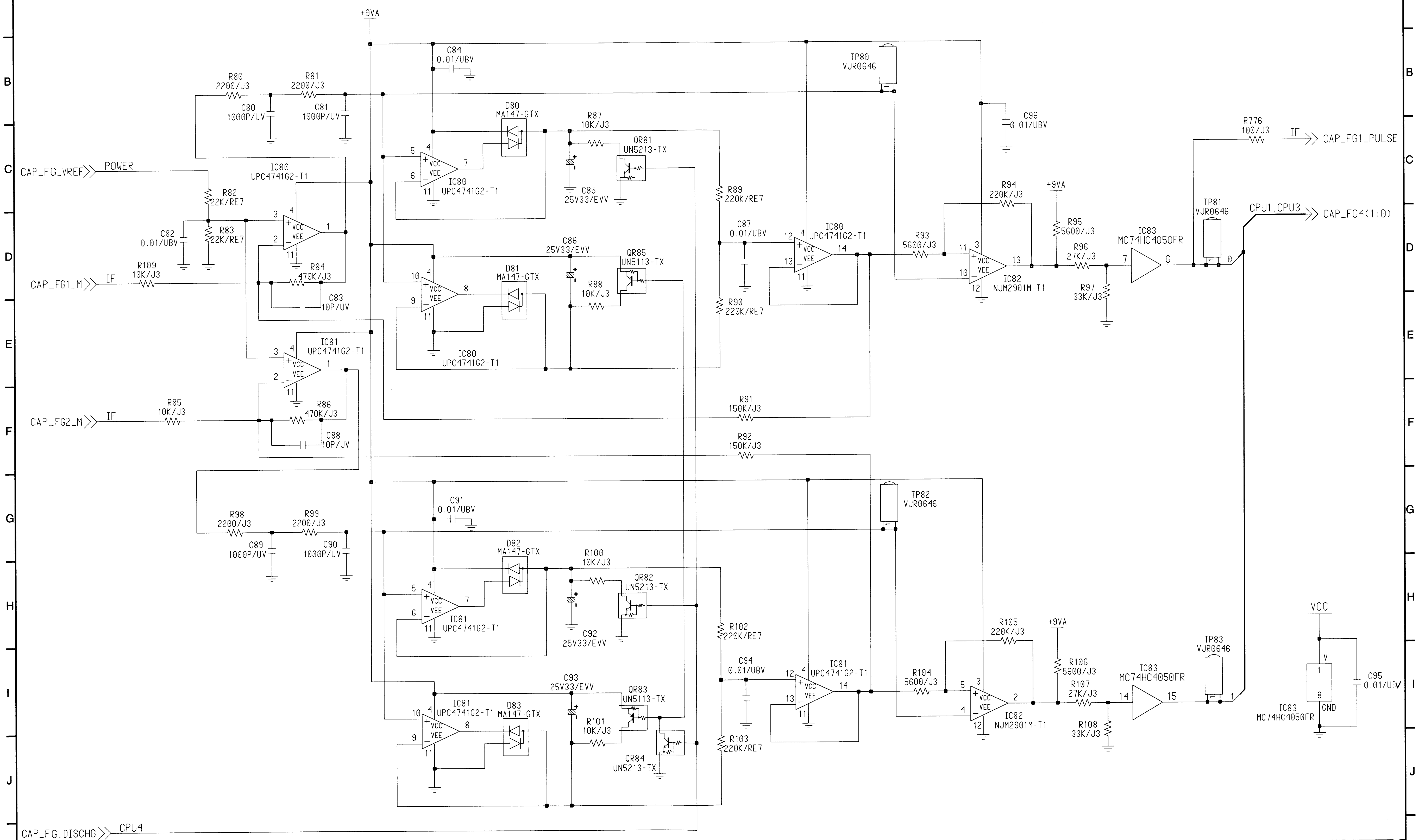
COMPONENT NAME	F1:SERVO(CTL2)	02/20
CIRCUIT BOARD NO.		
VEP82221A		
		SCM2

KR2D15(2/20)


1.56MHZ
CPU2,CPU3
CTL_PULSE
CPU1,CPU4
TAPE_REV_H
CPU4,IF
N_P
CPU4
CP2919
FRM_RS
CPU4
CP2920
IF
FR_PULSE
TP60
EYF6CU
VCC
GND
IC60 MC74HC08AF-R
IC61 MC74HC08AF-R
IC63 NVHC74FTEL
IC64 NVHC74FTEL
IC65 NVHC74FTEL
IC66 NVHC74FTEL
IC67 MC74HC157AFR
IC68 T74HC191AFT1
IC69 MC74HC32AF-R
IC70 MC74HC86AFR
IC71 MC74HC04AF-R
IC72 NVHC74FTEL
IC73 TVHC11FTEL
IC74 MC74HC27F-R
R60 100/J3
R61 0/J3
R62 0/J3
R63 0/J3
R64 0/J3
R65 0/J3
R66 0/J3
R72 0/J3
R73 0/J3
R74 0/J3
R75 0/J3
R76 0/J3
R77 0/J3
C60 0.01/UBV
C61 0.01/UBV
C63 0.01/UBV
C64 0.01/UBV
C65 0.01/UBV
C66 0.01/UBV
C67 0.01/UBV
C68 0.01/UBV
C69 0.01/UBV
C70 0.01/UBV
C71 0.01/UBV
C72 0.01/UBV
C73 0.01/UBV
C74 0.01/UBV
D _PRE Q CLK _CLR _Q
_EN D_U CLK _LD MX_MN _RC A B C D QA QB QC QD
_G S 1A 1B 2A 2B 3A 3B 4A 4B 1Y 2Y 3Y 4Y
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

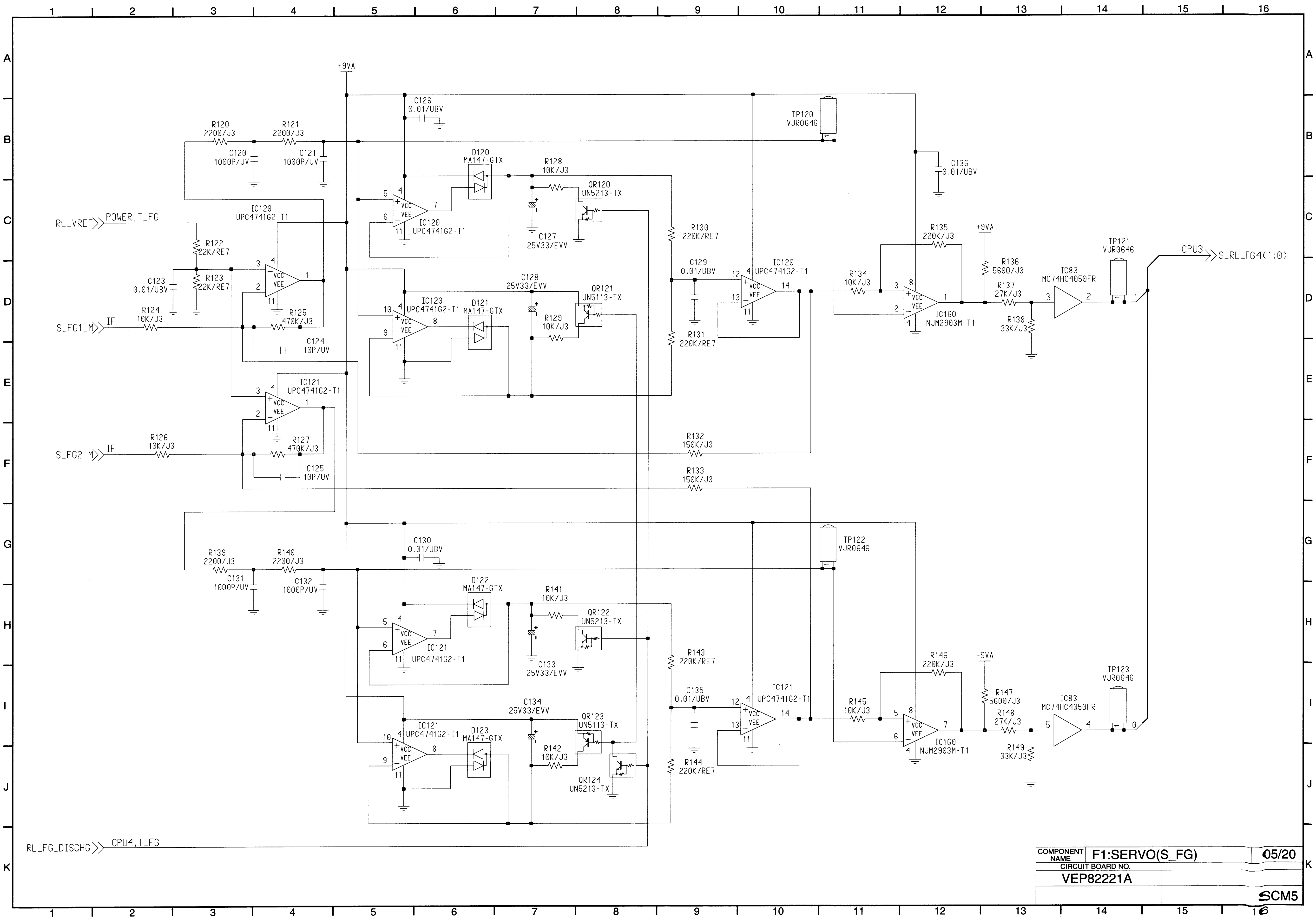
COMPONENT NAME	F1:SERVO(CTL3)	03/20
CIRCUIT BOARD NO.		
VEP82221A		
		SCM3

KR2D15(3/20)


+9VA
C84
0.01/UBV
R80
2200/J3
R81
2200/J3
C80
1000P/UV
C81
1000P/UV
D80
MA147-GTX
R87
10K/J3
QR81
UN5213-TX
C85
25V33/EVV
IC80
UPC4741G2-T1
CAP_FG_VREF
POWER
R82
22K/RE7
R83
22K/RE7
C82
0.01/UBV
R84
470K/J3
C83
10P/UV
CAP_FG1_M
IF
R109
10K/J3
D81
MA147-GTX
C86
25V33/EVV
QR85
UN5113-TX
R88
10K/J3
R89
220K/RE7
R90
220K/RE7
C87
0.01/UBV
TP80
VJR0646
C96
0.01/UBV
R94
220K/J3
R93
5600/J3
R95
5600/J3
R96
27K/J3
R97
33K/J3
IC82
NJM2901M-T1
IC83
MC74HC4050FR
TP81
VJR0646
R776
100/J3
CAP_FG1_PULSE
CPU1,CPU3
CAP_FG4(1:0)
IC81
UPC4741G2-T1
R85
10K/J3
R86
470K/J3
C88
10P/UV
CAP_FG2_M
R91
150K/J3
R92
150K/J3
C91
0.01/UBV
R98
2200/J3
R99
2200/J3
C89
1000P/UV
C90
1000P/UV
TP82
VJR0646
D82
MA147-GTX
R100
10K/J3
QR82
UN5213-TX
C92
25V33/EVV
R102
220K/RE7
R103
220K/RE7
C94
0.01/UBV
C93
25V33/EVV
QR83
UN5113-TX
D83
MA147-GTX
R101
10K/J3
QR84
UN5213-TX
R105
220K/J3
R104
5600/J3
R106
5600/J3
R107
27K/J3
R108
33K/J3
TP83
VJR0646
VCC
C95
0.01/UBV
GND
CAP_FG_DISCHG
CPU4

COMPONENT NAME	F1:SERVO(CAP_FG)	04/20
CIRCUIT BOARD NO.		
VEP82221A		
		SCM4

KR2D15(4/20)


RL_VREF
POWER,T_FG
S_FG1_M
IF
S_FG2_M
IF
RL_FG_DISCHG
CPU4,T_FG
CPU3
S_RL_FG4(1:0)
+9VA
R120 2200/J3
R121 2200/J3
C120 1000P/UV
C121 1000P/UV
C126 0.01/UBV
D120 MA147-GTX
R128 10K/J3
QR120 UN5213-TX
C127 25V33/EVV
IC120 UPC4741G2-T1
R122 22K/RE7
R123 22K/RE7
C123 0.01/UBV
R124 10K/J3
R125 470K/J3
C124 10P/UV
C128 25V33/EVV
QR121 UN5113-TX
D121 MA147-GTX
R129 10K/J3
R130 220K/RE7
R131 220K/RE7
C129 0.01/UBV
TP120 VJR0646
C136 0.01/UBV
R134 10K/J3
R135 220K/J3
R136 5600/J3
R137 27K/J3
R138 33K/J3
IC160 NJM2903M-T1
IC83 MC74HC4050FR
TP121 VJR0646
IC121 UPC4741G2-T1
R126 10K/J3
R127 470K/J3
C125 10P/UV
R132 150K/J3
R133 150K/J3
C130 0.01/UBV
TP122 VJR0646
R139 2200/J3
R140 2200/J3
C131 1000P/UV
C132 1000P/UV
D122 MA147-GTX
R141 10K/J3
QR122 UN5213-TX
C133 25V33/EVV
R143 220K/RE7
R144 220K/RE7
C135 0.01/UBV
C134 25V33/EVV
QR123 UN5113-TX
D123 MA147-GTX
R142 10K/J3
QR124 UN5213-TX
R145 10K/J3
R146 220K/J3
R147 5600/J3
R148 27K/J3
R149 33K/J3
TP123 VJR0646
VCC
VEE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

COMPONENT NAME F1:SERVO(S_FG)

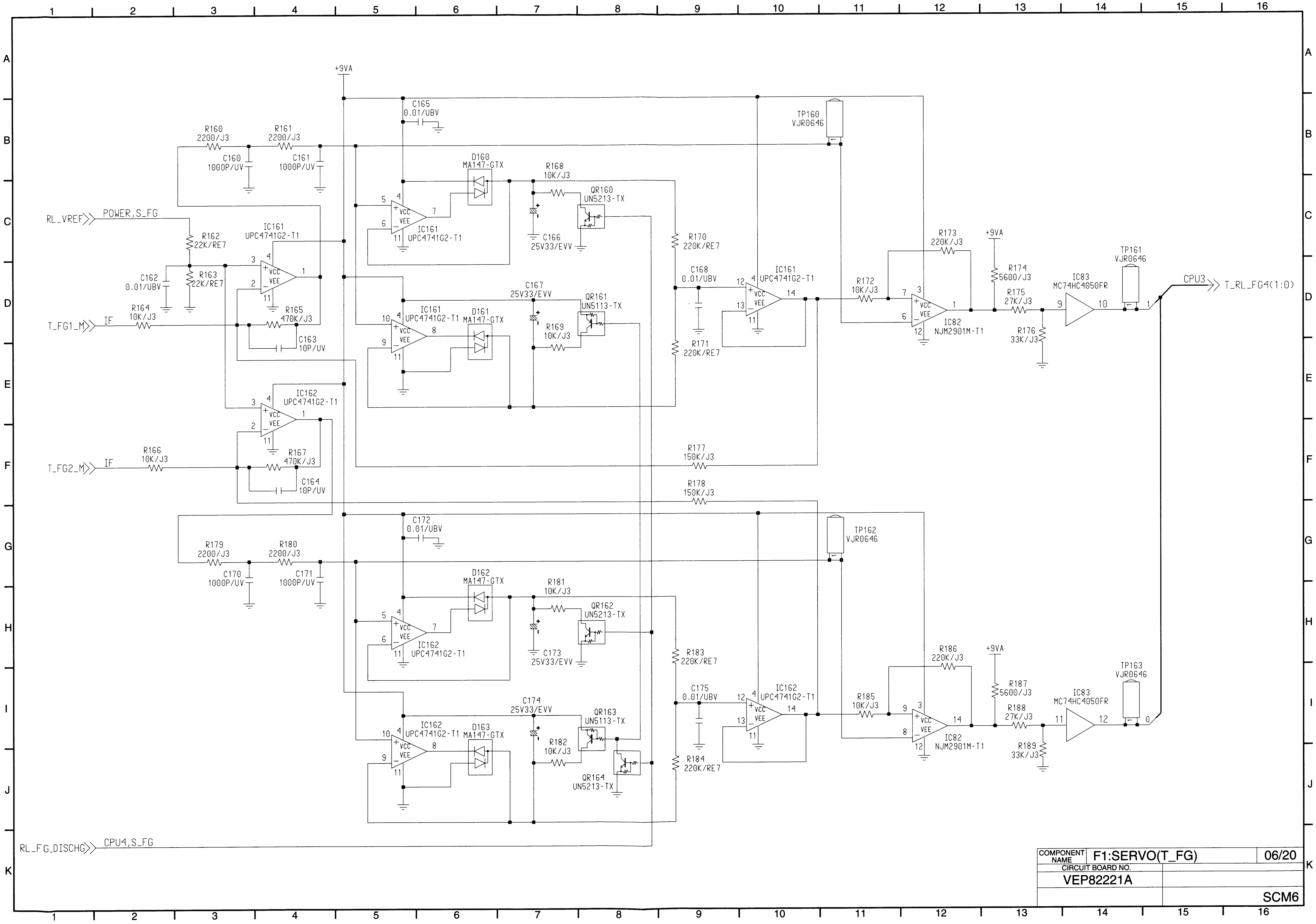
05/20

CIRCUIT BOARD NO.

VEP82221A

SCM5

KR2D15(5/20)



+9VA
C165
0.01/UBV
TP160
VJR0646
R160
2200/J3
R161
2200/J3
C160
1000P/UV
C161
1000P/UV
D160
MA147-GTX
R168
10K/J3
QR160
UN5213-TX
IC161
UPC4741G2-T1
C166
25V33/EVV
RL_VREF
POWER,S_FG
R162
22K/RE7
R163
22K/RE7
C162
0.01/UBV
R164
10K/J3
T_FG1_M
IF
R165
470K/J3
C163
10P/UV
C167
25V33/EVV
QR161
UN5113-TX
D161
MA147-GTX
R169
10K/J3
R170
220K/RE7
R171
220K/RE7
C168
0.01/UBV
R172
10K/J3
R173
220K/J3
R174
5600/J3
R175
27K/J3
R176
33K/J3
IC82
NJM2901M-T1
IC83
MC74HC4050FR
TP161
VJR0646
CPU3
T_RL_FG4(1:0)
IC162
UPC4741G2-T1
R166
10K/J3
T_FG2_M
R167
470K/J3
C164
10P/UV
R177
150K/J3
R178
150K/J3
C172
0.01/UBV
TP162
VJR0646
R179
2200/J3
R180
2200/J3
C170
1000P/UV
C171
1000P/UV
D162
MA147-GTX
R181
10K/J3
QR162
UN5213-TX
C173
25V33/EVV
R183
220K/RE7
R184
220K/RE7
C175
0.01/UBV
R185
10K/J3
R186
220K/J3
R187
5600/J3
R188
27K/J3
R189
33K/J3
TP163
VJR0646
C174
25V33/EVV
QR163
UN5113-TX
D163
MA147-GTX
R182
10K/J3
QR164
UN5213-TX
RL_FG_DISCHG
CPU4,S_FG
VCC
VEE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
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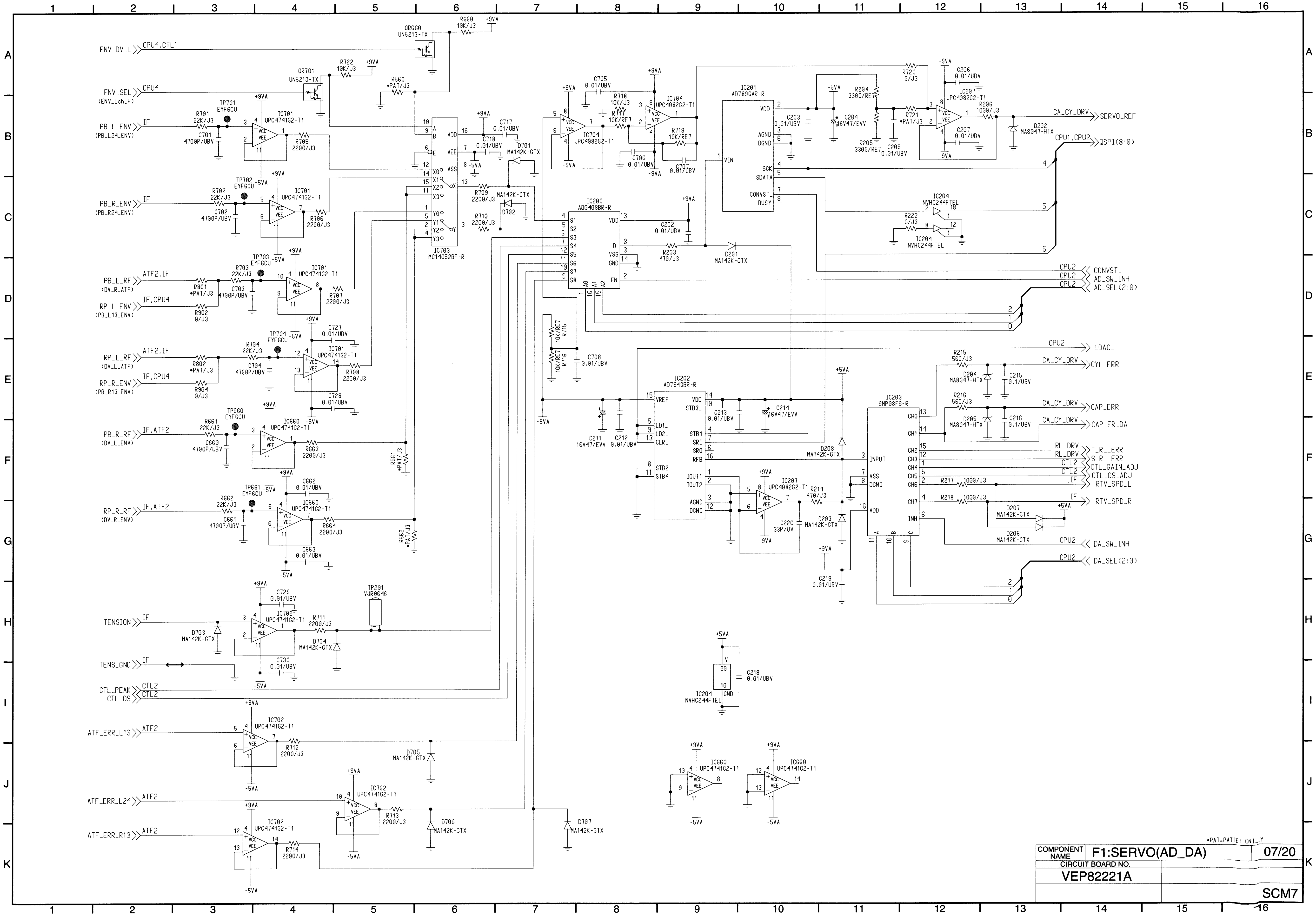
COMPONENT NAME	F1:SERVO(T_FG)	06/20
CIRCUIT BOARD NO.		
VEP82221A		
		SCM6

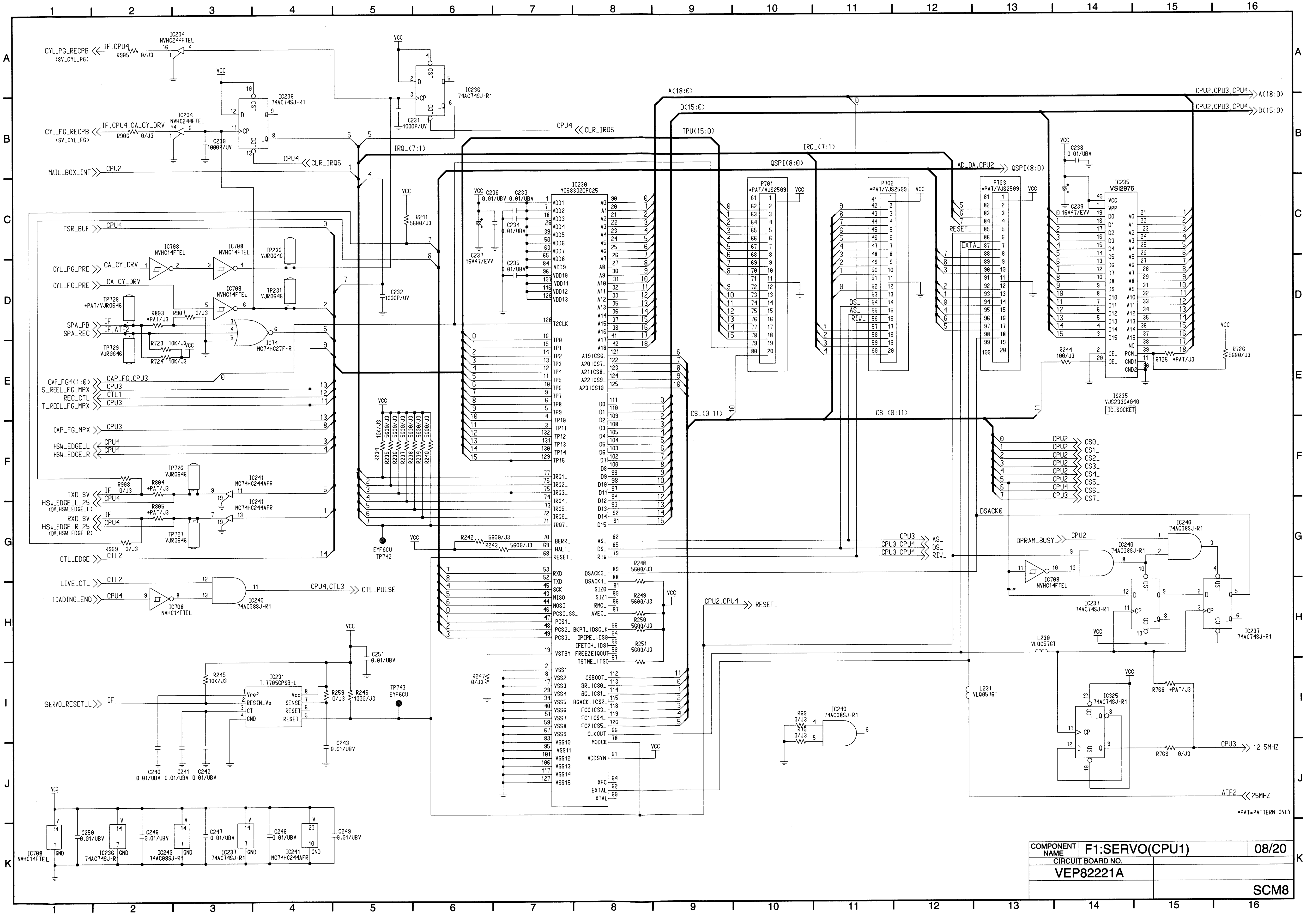
KR2D15(6/20)


ENV_DV_L
CPU4,CTL1
QR660
UN5213-TX
R660
10K/J3
+9VA
ENV_SEL
(ENV_Lch_H)
CPU4
QR701
UN5213-TX
R722
10K/J3
R560
*PAT/J3
PB_L_ENV
(PB_L24_ENV)
IF
R701
22K/J3
TP701
EYF6CU
C701
4700P/UBV
IC701
UPC4741G2-T1
R705
2200/J3
PB_R_ENV
(PB_R24_ENV)
R702
22K/J3
TP702
EYF6CU
C702
4700P/UBV
R706
2200/J3
PB_L_RF
(DV_R_ATF)
ATF2,IF
R801
*PAT/J3
R703
22K/J3
TP703
EYF6CU
C703
4700P/UBV
R707
2200/J3
RP_L_ENV
(PB_L13_ENV)
IF,CPU4
R902
0/J3
RP_L_RF
(DV_L_ATF)
R802
*PAT/J3
R704
22K/J3
TP704
EYF6CU
C704
4700P/UBV
C727
0.01/UBV
R708
2200/J3
C728
0.01/UBV
RP_R_ENV
(PB_R13_ENV)
R904
0/J3
PB_R_RF
(DV_L_ENV)
IF,ATF2
R661
22K/J3
TP660
EYF6CU
C660
4700P/UBV
IC660
UPC4741G2-T1
R663
2200/J3
R561
*PAT/J3
RP_R_RF
(DV_R_ENV)
R662
22K/J3
TP661
EYF6CU
C661
4700P/UBV
C662
0.01/UBV
R664
2200/J3
C663
0.01/UBV
R562
*PAT/J3
IC703
MC14052BF-R
VDD
VEE
VSS
C717
0.01/UBV
C718
0.01/UBV
D701
MA142K-GTX
R709
2200/J3
D702
MA142K-GTX
R710
2200/J3
C705
0.01/UBV
R718
10K/J3
R717
10K/RE7
IC704
UPC4082G2-T1
R719
10K/RE7
C706
0.01/UBV
C707
0.01/UBV
IC200
ADG408BR-R
S1
S2
S3
S4
S5
S6
S7
S8
D
VSS
GND
EN
A0
A1
A2
C202
0.01/UBV
R203
470/J3
D201
MA142K-GTX
R715
10K/RE7
R716
10K/RE7
C708
0.01/UBV
IC201
AD7896AR-R
VIN
AGND
DGND
SCK
SDATA
CONVST_
BUSY
C203
0.01/UBV
C204
16V47/EVV
R204
3300/RE7
R205
3300/RE7
C205
0.01/UBV
R720
0/J3
R721
*PAT/J3
C206
0.01/UBV
IC207
UPC4082G2-T1
C207
0.01/UBV
R206
1000/J3
D202
MA8047-HTX
CA_CY_DRV
SERVO_REF
CPU1,CPU2
QSPI(8:0)
IC204
NVHC244FTEL
R222
0/J3
CPU2
CONVST_
AD_SW_INH
AD_SEL(2:0)
LDAC_
IC202
AD7943BR-R
VREF
LD1_
LD2_
CLR_
STB2
STB4
STB3_
STB1
SR1
SRO
RFB
IOUT1
IOUT2
AGND
DGND
C211
16V47/EVV
C212
0.01/UBV
C213
0.01/UBV
C214
16V47/EVV
D208
MA142K-GTX
IC207
UPC4082G2-T1
R214
470/J3
C220
33P/UV
D203
MA142K-GTX
C219
0.01/UBV
R215
560/J3
D204
MA8047-HTX
C215
0.1/UBV
CYL_ERR
IC203
SMP08FS-R
CH0
CH1
CH2
CH3
CH4
CH5
CH6
CH7
INPUT
VSS
DGND
VDD
INH
R216
560/J3
D205
MA8047-HTX
C216
0.1/UBV
CAP_ERR
CAP_ER_DA
RL_DRV
T_RL_ERR
S_RL_ERR
CTL2
CTL_GAIN_ADJ
CTL_OS_ADJ
R217
1000/J3
RTV_SPD_L
R218
1000/J3
RTV_SPD_R
D207
MA142K-GTX
D206
MA142K-GTX
DA_SW_INH
DA_SEL(2:0)
TENSION
D703
MA142K-GTX
C729
0.01/UBV
IC702
UPC4741G2-T1
R711
2200/J3
D704
MA142K-GTX
C730
0.01/UBV
TP201
VJR0646
TENS_GND
CTL_PEAK
CTL_OS
CTL2
C218
0.01/UBV
IC204
NVHC244FTEL
ATF_ERR_L13
R712
2200/J3
D705
MA142K-GTX
ATF_ERR_L24
R713
2200/J3
D706
MA142K-GTX
D707
MA142K-GTX
ATF_ERR_R13
R714
2200/J3
IC660
UPC4741G2-T1
+9VA
-5VA
-9VA
+5VA
-5VA
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

*PAT=PATTERN ONLY

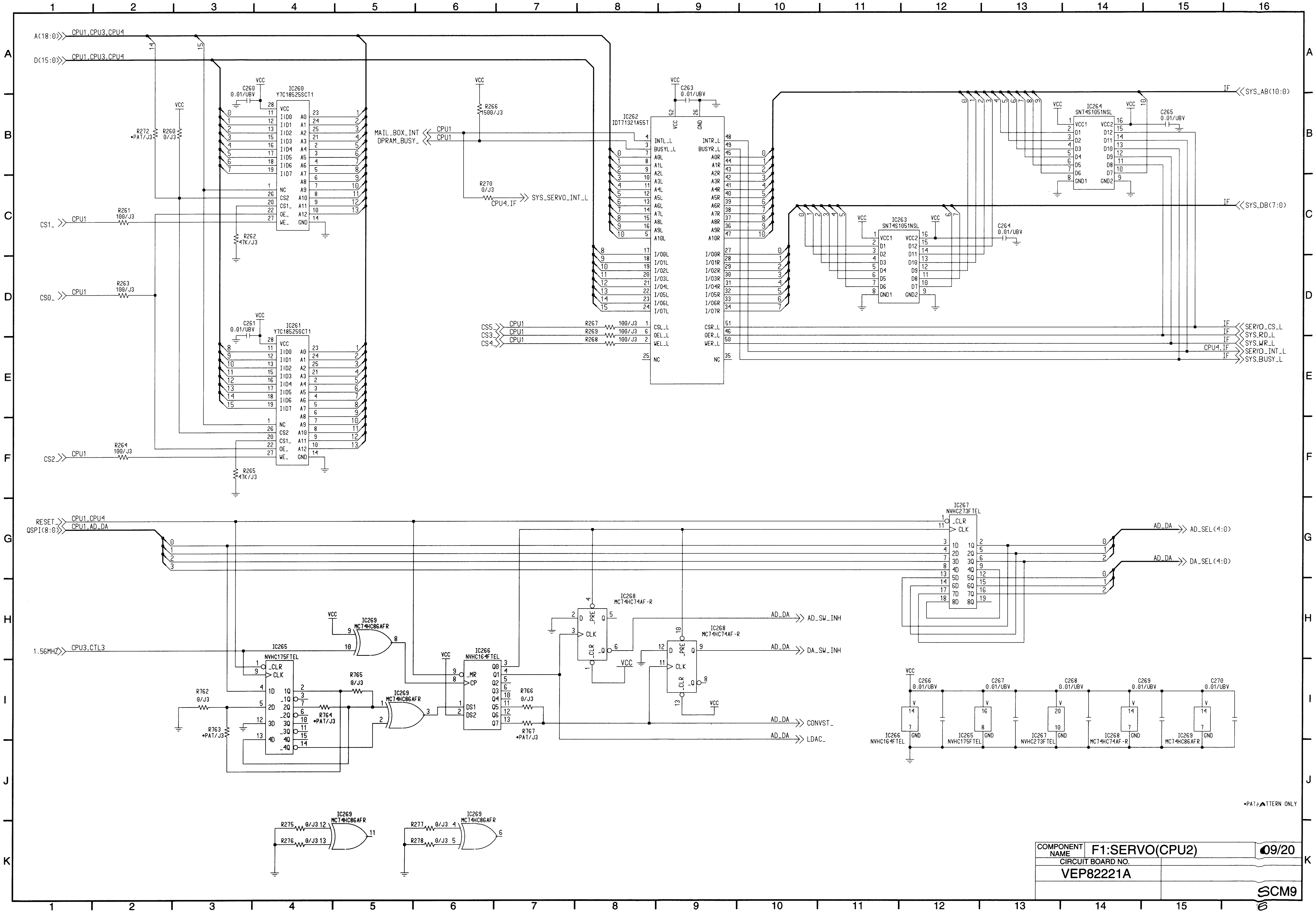
COMPONENT NAME	F1:SERVO(AD_DA)	07/20
CIRCUIT BOARD NO.		
VEP82221A		
		SCM7

KR2D15(7/20)


CYL_PG_RECPB
(SV_CYL_PG)
IF,CPU4
R905 0/J3
IC204 NVHC244FTEL
CYL_FG_RECPB
(SV_CYL_FG)
IF,CPU4,CA_CY_DRV
R906 0/J3
C230 1000P/UV
IC236 74AC74SJ-R1
C231 1000P/UV
CPU4 CLR_IRQ5
CPU4 CLR_IRQ6
MAIL_BOX_INT CPU2
TSR_BUF CPU4
CYL_PG_PRE CA_CY_DRV
CYL_FG_PRE CA_CY_DRV
IC708 NVHC14FTEL
TP230 VJR0646
TP231 VJR0646
TP728 *PAT/VJR0646
R803 *PAT/J3
R907 0/J3
SPA_PB IF
SPA_REC IF,ATF2
R723 10K/J3
R724 10K/J3
TP729 VJR0646
IC74 MC74HC27F-R
CAP_FG4(1:0) CAP_FG,CPU3
S_REEL_FG_MPX CPU3
REC_CTL CTL1
T_REEL_FG_MPX CPU3
CAP_FG_MPX CPU3
HSW_EDGE_L CPU4
HSW_EDGE_R CPU4
TXD_SV IF
HSW_EDGE_L_25 CPU4
(DV_HSW_EDGE_L)
R908 0/J3
R804 *PAT/J3
TP726 VJR0646
IC241 MC74HC244AFR
RXD_SV IF
HSW_EDGE_R_25 CPU4
(DV_HSW_EDGE_R)
R805 *PAT/J3
TP727 VJR0646
R909 0/J3
CTL_EDGE CTL2
LIVE_CTL CTL2
LOADING_END CPU4
IC240 74AC08SJ-R1
CPU4,CTL3 CTL_PULSE
SERVO_RESET_L IF
R245 10K/J3
IC231 TL7705CPSB-L
Vref RESIN_Vs CT GND Vcc SENSE RESET RESET
R259 0/J3
R246 1000/J3
C251 0.01/UBV
TP743 EYF6CU
C240 0.01/UBV
C241 0.01/UBV
C242 0.01/UBV
C243 0.01/UBV
C232 1000P/UV
R241 5600/J3
C236 0.01/UBV
C233 0.01/UBV
C234 0.01/UBV
C235 0.01/UBV
C237 16V47/EVV
IC230 MC68332CFC25
VDD1 VDD2 VDD3 VDD4 VDD5 VDD6 VDD7 VDD8 VDD9 VDD10 VDD11 VDD12 VDD13
T2CLK
TP0 TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP9 TP10 TP11 TP12 TP13 TP14 TP15
IRQ1_ IRQ2_ IRQ3_ IRQ4_ IRQ5_ IRQ6_ IRQ7_
BERR_ HALT_ RESET_
RXD TXD SCK MISO MOSI PCS0_SS_ PCS1_ PCS2_ PCS3_
VSTBY
VSS1 … VSS15
A0 … A18
A19 CS6_ A20 CS7_ A21 CS8_ A22 CS9_ A23 CS10_
D0 … D15
AS_ DS_ R/W_
DSACK0_ DSACK1_ SIZ0 SIZ1 RMC_ AVEC_
BKPT_IDSCLK IPIPE_IDSO IFETCH_IDS FREEZE IQOUT TSTME_TSC
CSBOOT_ BR_CS0_ BG_CS1_ BGACK_CS2 FC0 CS3_ FC1 CS4_ FC2 CS5_
CLKOUT MODCK VDDSYN XFC EXTAL XTAL
R234 10K/J3
R235 R236 R237 R238 R239 R240 5600/J3
EYF6CU TP742
R242 5600/J3
R243 5600/J3
R247 0/J3
R248 5600/J3
R249 5600/J3
R250 5600/J3
R251 5600/J3
A(18:0)
D(15:0)
TPU(15:0)
IRQ_(7:1)
QSPI(8:0)
CS_(0:11)
CPU2,CPU3,CPU4 A(18:0)
CPU2,CPU3,CPU4 D(15:0)
AD_DA_CPU2 QSPI(8:0)
P701 *PAT/VJS2509
P702 *PAT/VJS2509
P703 *PAT/VJS2509
DS_ AS_ R/W_
RESET_ EXTAL
IC235 VSI2976
IS235 VJS2336A040
IC_SOCKET
VCC VPP D0 … D15 A0 … A15 NC CE_ OE_ PGM_ GND1 GND2
C238 0.01/UBV
C239 16V47/EVV
R244 100/J3
R725 *PAT/J3
R726 5600/J3
CPU2 CS0_
CPU2 CS1_
CPU2 CS2_
CPU2 CS3_
CPU2 CS4_
CPU2 CS5_
CPU4 CS6_
CPU3 CS7_
DSACK0
CPU3 AS_
CPU3,CPU4 DS_
CPU3,CPU4 R/W_
DPRAM_BUSY CPU2
IC240 74AC08SJ-R1
IC708 NVHC14FTEL
IC237 74AC74SJ-R1
CPU2,CPU4 RESET_
R69 0/J3
R70 0/J3
L230 VLQ0576T
L231 VLQ0576T
IC325 74AC74SJ-R1
R768 *PAT/J3
R769 0/J3
CPU3 12.5MHZ
ATF2 25MHZ
*PAT=PATTERN ONLY
IC708 NVHC14FTEL
IC236 74AC74SJ-R1
IC240 74AC08SJ-R1
IC237 74AC74SJ-R1
IC241 MC74HC244AFR
C250 0.01/UBV
C246 0.01/UBV
C247 0.01/UBV
C248 0.01/UBV
C249 0.01/UBV
VCC GND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

COMPONENT NAME	F1:SERVO(CPU1)	08/20
CIRCUIT BOARD NO.		
VEP82221A		
		SCM8

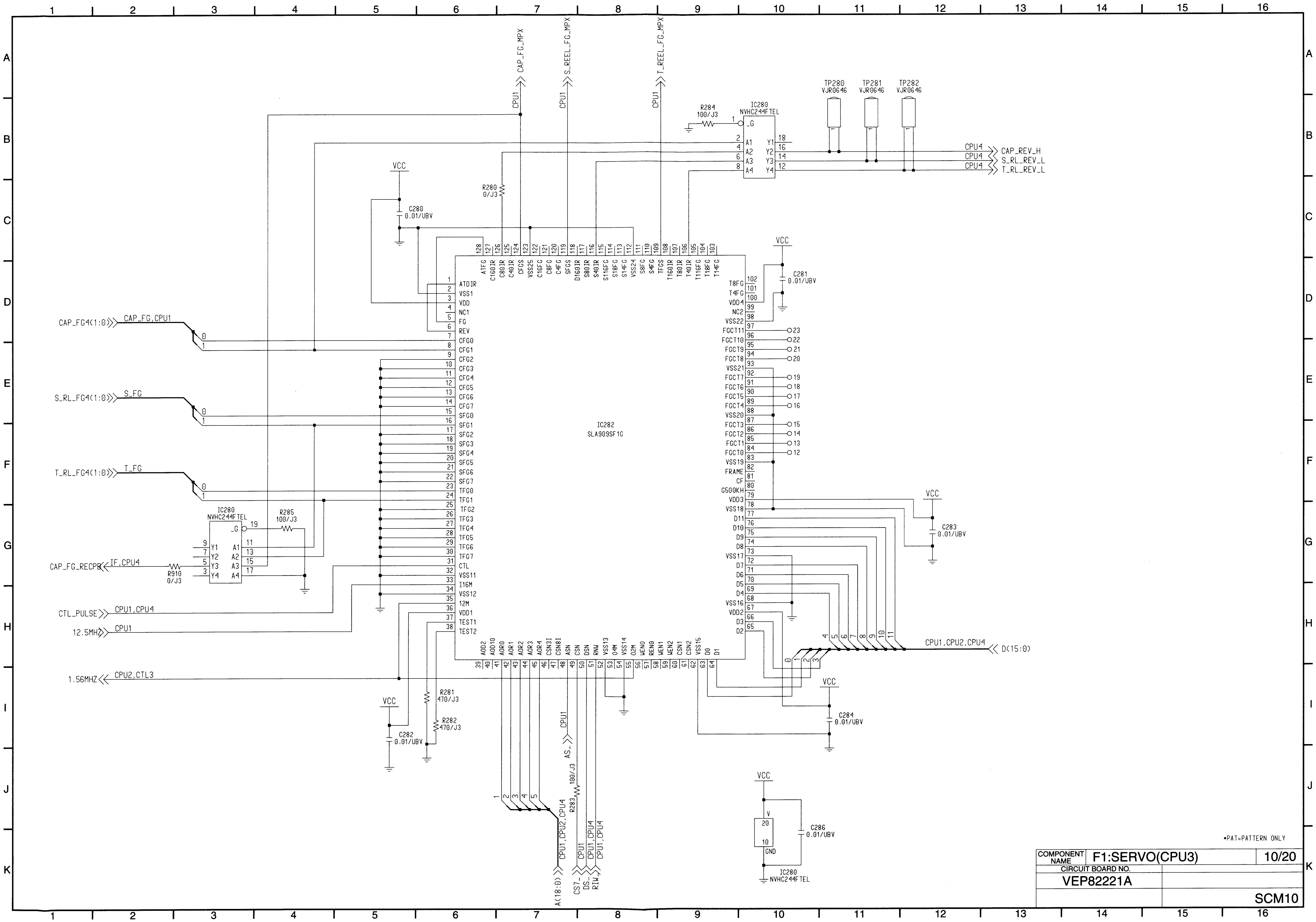
KR2D15(8/20)


A(18:0) CPU1,CPU3,CPU4
D(15:0) CPU1,CPU3,CPU4
IC260 Y7C18525SCT1
IC261 Y7C18525SCT1
IC262 IDT71321A55T
IC263 SN74S1051NSL
IC264 SN74S1051NSL
IC265 NVHC175FTEL
IC266 NVHC164FTEL
IC267 NVHC273FTEL
IC268 MC74HC74AF-R
IC269 MC74HC86AFR
CS1_ CPU1
CS0_ CPU1
CS2_ CPU1
CS3 CPU1
CS4 CPU1
CS5 CPU1
MAIL_BOX_INT CPU1
DPRAM_BUSY_ CPU1
SYS_SERVO_INT_L CPU4,IF
SYS_AB(10:0) IF
SYS_DB(7:0) IF
SERVO_CS_L IF
SYS_RD_L IF
SYS_WR_L IF
SERVO_INT_L CPU4,IF
SYS_BUSY_L IF
RESET CPU1,CPU4
QSPI(8:0) CPU1,AD_DA
1.56MHZ CPU3,CTL3
AD_SEL(4:0) AD_DA
DA_SEL(4:0) AD_DA
AD_SW_INH AD_DA
DA_SW_INH AD_DA
CONVST_ AD_DA
LDAC_ AD_DA
VCC
*PAT: PATTERN ONLY

COMPONENT NAME	F1:SERVO(CPU2)	09/20
CIRCUIT BOARD NO.		
VEP82221A		

SCM9

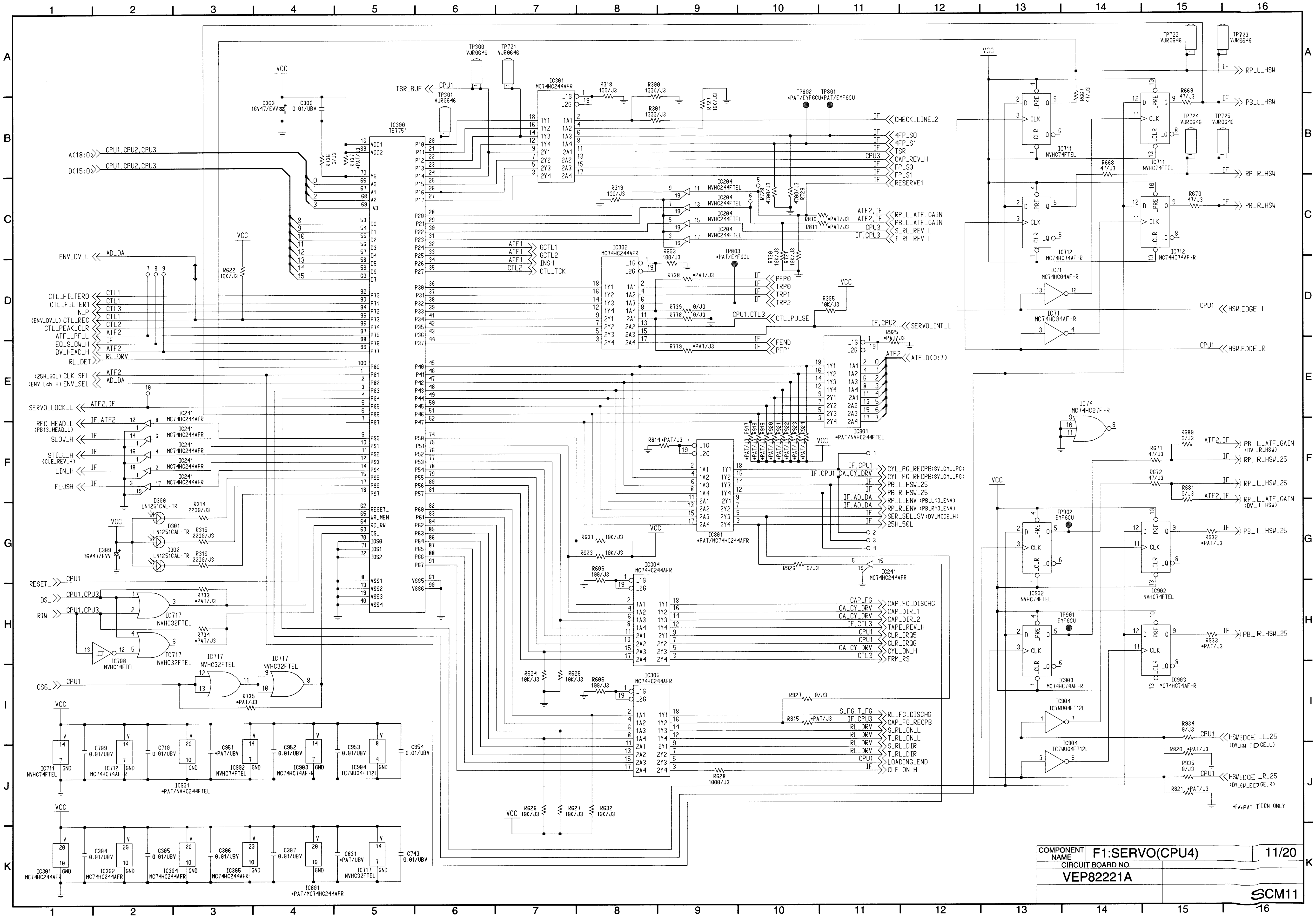
KR2D15(9/20)


CPU1 CAP_FG_MPX
CPU1 S_REEL_FG_MPX
CPU1 T_REEL_FG_MPX
R284 100/J3
IC280 NVHC244FTEL
TP280 VJR0646
TP281 VJR0646
TP282 VJR0646
CPU4 CAP_REV_H
CPU4 S_RL_REV_L
CPU4 T_RL_REV_L
VCC
C280 0.01/UBV
R280 0/J3
C281 0.01/UBV
IC282 SLA909SF1G
CAP_FG4(1:0)
CAP_FG,CPU1
S_RL_FG4(1:0)
S_FG
T_RL_FG4(1:0)
T_FG
IC280 NVHC244FTEL
R285 100/J3
CAP_FG_RECPB
IF,CPU4
R910 0/J3
CTL_PULSE
CPU1,CPU4
12.5MHZ
CPU1
1.56MHZ
CPU2,CTL3
C283 0.01/UBV
CPU1,CPU2,CPU4
D(15:0)
C284 0.01/UBV
R281 470/J3
R282 470/J3
C282 0.01/UBV
CPU1
AS_
R283 100/J3
CPU1,CPU2,CPU4
A(18:0)
CPU1,CPU4
CS7_
DS_
CPU1,CPU4
R/W
C286 0.01/UBV
IC280 NVHC244FTEL
ATDIR VSS1 VDD NC1 FG REV CFG0 CFG1 CFG2 CFG3 CFG4 CFG5 CFG6 CFG7 SFG0 SFG1 SFG2 SFG3 SFG4 SFG5 SFG6 SFG7 TFG0 TFG1 TFG2 TFG3 TFG4 TFG5 TFG6 TFG7 CTL VSS11 I16M VSS12 12M VDD1 TEST1 TEST2
T8FG T4FG VDD4 NC2 VSS22 FGCT11 FGCT10 FGCT9 FGCT8 VSS21 FGCT7 FGCT6 FGCT5 FGCT4 VSS20 FGCT3 FGCT2 FGCT1 FGCT0 VSS19 FRAME CF G500KH VDD3 VSS18 D11 D10 D9 D8 VSS17 D7 D6 D5 D4 VSS16 VDD2 D3 D2
•PAT=PATTERN ONLY

COMPONENT NAME	F1:SERVO(CPU3)	10/20
CIRCUIT BOARD NO.		
VEP82221A		
		SCM10

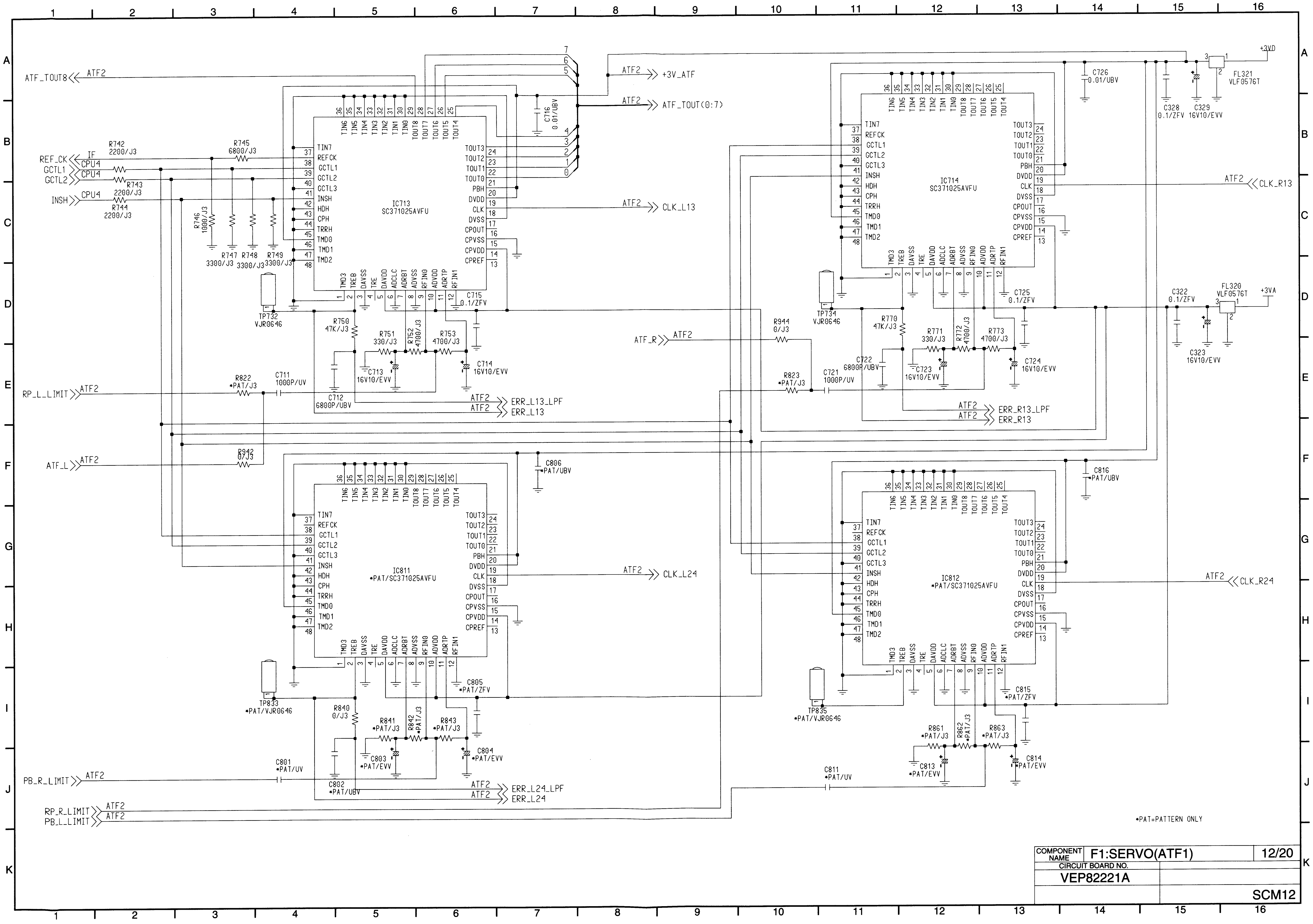
KR2D15(10/20)

KR2D15(11/20)


IC300 TE7751
IC301 MC74HC244AFR
IC302 MC74HC244AFR
IC304 MC74HC244AFR
IC305 MC74HC244AFR
IC801 •PAT/MC74HC244AFR
IC901 •PAT/NVHC244FTEL
IC204 NVHC244FTEL
IC241 MC74HC244AFR
IC717 NVHC32FTEL
IC708 NVHC14FTEL
IC711 NVHC74FTEL
IC712 MC74HC74AF-R
IC71 MC74HC04AF-R
IC74 MC74HC27F-R
IC902 NVHC74FTEL
IC903 MC74HC74AF-R
IC904 TC7WU04FT12L
A(18:0) CPU1,CPU2,CPU3
D(15:0) CPU1,CPU2,CPU3
ENV_DV_L
CTL_FILTER0
CTL_FILTER1
N_P
(ENV_DV_L) CTL_REC
CTL_PEAK_CLR
ATF_LPF_L
EQ_SLOW_H
DV_HEAD_H
RL_DET
(25H_50L) CLK_SEL
(ENV_Lch_H) ENV_SEL
SERVO_LOCK_L
REC_HEAD_L (PB13_HEAD_L)
SLOW_H
STILL_H (CUE_REV_H)
LIN_H
FLUSH
RESET_
DS_
R/W_
CS6_
TSR_BUF
CHECK_LINE_2
4FP_S0
4FP_S1
TSR
CAP_REV_H
FP_S0
FP_S1
RESERVE1
RP_L_ATF_GAIN
PB_L_ATF_GAIN
S_RL_REV_L
T_RL_REV_L
PFP0
TRP0
TRP1
TRP2
CTL_PULSE
SERVO_INT_L
FEND
PFP1
ATF_D(0:7)
CYL_PG_RECPB(SV_CYL_PG)
CYL_FG_RECPB(SV_CYL_FG)
PB_L_HSW_25
PB_R_HSW_25
RP_L_ENV (PB_L13_ENV)
RP_R_ENV (PB_R13_ENV)
SER_SEL_SV (DV_MODE_H)
25H_50L
CAP_FG_DISCHG
CAP_DIR_1
CAP_DIR_2
TAPE_REV_H
CLR_IRQ5
CLR_IRQ6
CYL_ON_H
FRM_RS
RL_FG_DISCHG
CAP_FG_RECPB
S_RL_ON_L
T_RL_ON_L
S_RL_DIR
T_RL_DIR
LOADING_END
CLE_ON_H
RP_L_HSW
PB_L_HSW
RP_R_HSW
PB_R_HSW
HSW_EDGE_L
HSW_EDGE_R
PB_L_ATF_GAIN (DV_R_HSW)
RP_R_HSW_25
RP_L_HSW_25
RP_L_ATF_GAIN (DV_L_HSW)
PB_L_HSW_25
PB_R_HSW_25
HSW_EDGE_L_25 (DV_SW_EDGE_L)
HSW_EDGE_R_25 (DV_SW_EDGE_R)
•PAT PATTERN ONLY
VCC
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

COMPONENT NAME	F1:SERVO(CPU4)	11/20
CIRCUIT BOARD NO.		
VEP82221A		

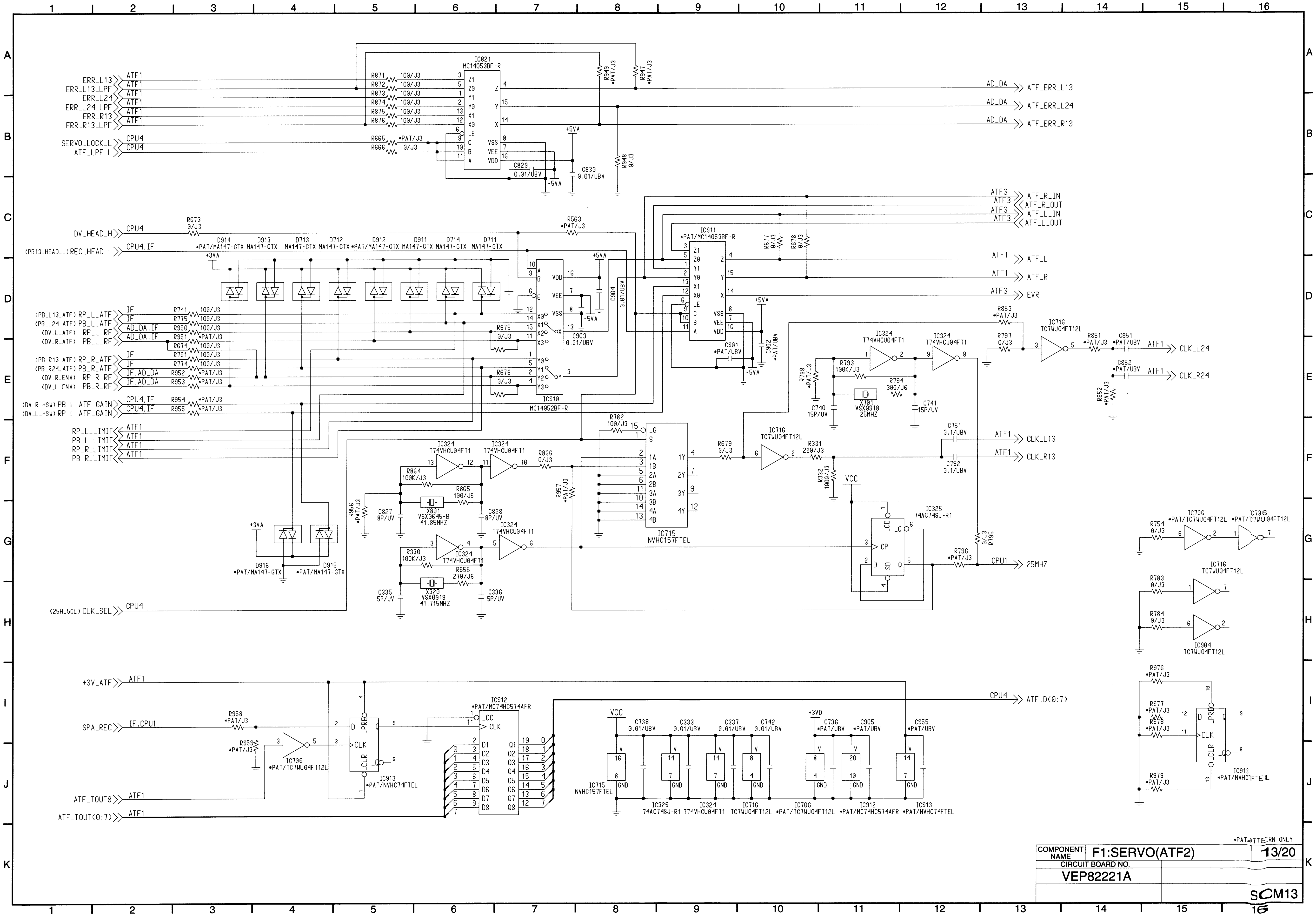
SCM11


ATF_TOUT8
ATF2
REF_CK
GCTL1
GCTL2
INSH
IF
CPU4
R742 2200/J3
R743 2200/J3
R744 2200/J3
R745 6800/J3
R746 1000/J3
R747 3300/J3
R748 3300/J3
R749 3300/J3
TP732 VJR0646
IC713 SC371025AVFU
+3V_ATF
ATF_TOUT(0:7)
CLK_L13
C716 0.01/UBV
C715 0.1/ZFV
R750 47K/J3
R751 330/J3
R752 4700/J3
R753 4700/J3
C713 16V10/EVV
C714 16V10/EVV
C712 6800P/UBV
RP_L_LIMIT
R822 *PAT/J3
C711 1000P/UV
ERR_L13_LPF
ERR_L13
ATF_L
R942 0/J3
ATF_R
R944 0/J3
R823 *PAT/J3
C721 1000P/UV
C722 6800P/UBV
IC714 SC371025AVFU
CLK_R13
TP734 VJR0646
R770 47K/J3
R771 330/J3
R772 4700/J3
R773 4700/J3
C723 16V10/EVV
C724 16V10/EVV
C725 0.1/ZFV
ERR_R13_LPF
ERR_R13
C726 0.01/UBV
C328 0.1/ZFV
C329 16V10/EVV
FL321 VLF0576T
+3VD
C322 0.1/ZFV
C323 16V10/EVV
FL320 VLF0576T
+3VA
C806 *PAT/UBV
IC811 *PAT/SC371025AVFU
CLK_L24
TP833 *PAT/VJR0646
R840 0/J3
R841 *PAT/J3
R842 *PAT/J3
R843 *PAT/J3
C803 *PAT/EVV
C804 *PAT/EVV
C805 *PAT/ZFV
C801 *PAT/UV
C802 *PAT/UBV
PB_R_LIMIT
ERR_L24_LPF
ERR_L24
RP_R_LIMIT
PB_L_LIMIT
C816 *PAT/UBV
IC812 *PAT/SC371025AVFU
CLK_R24
TP835 *PAT/VJR0646
R861 *PAT/J3
R862 *PAT/J3
R863 *PAT/J3
C813 *PAT/EVV
C814 *PAT/EVV
C815 *PAT/ZFV
C811 *PAT/UV
TIN7 REFCK GCTL1 GCTL2 GCTL3 INSH HDH CPH TRRH TMD0 TMD1 TMD2
TOUT3 TOUT2 TOUT1 TOUT0 PBH DVDD CLK DVSS CPOUT CPVSS CPVDD CPREF
TIN6 TIN5 TIN4 TIN3 TIN2 TIN1 TIN0 TOUT8 TOUT7 TOUT6 TOUT5 TOUT4
TMD3 TREB DAVSS TRE DAVDD ADCLC ADRBT ADVSS RFIN0 ADVDD ADRTP RFIN1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

*PAT=PATTERN ONLY

COMPONENT NAME	F1:SERVO(ATF1)	12/20
CIRCUIT BOARD NO.		
VEP82221A		
		SCM12

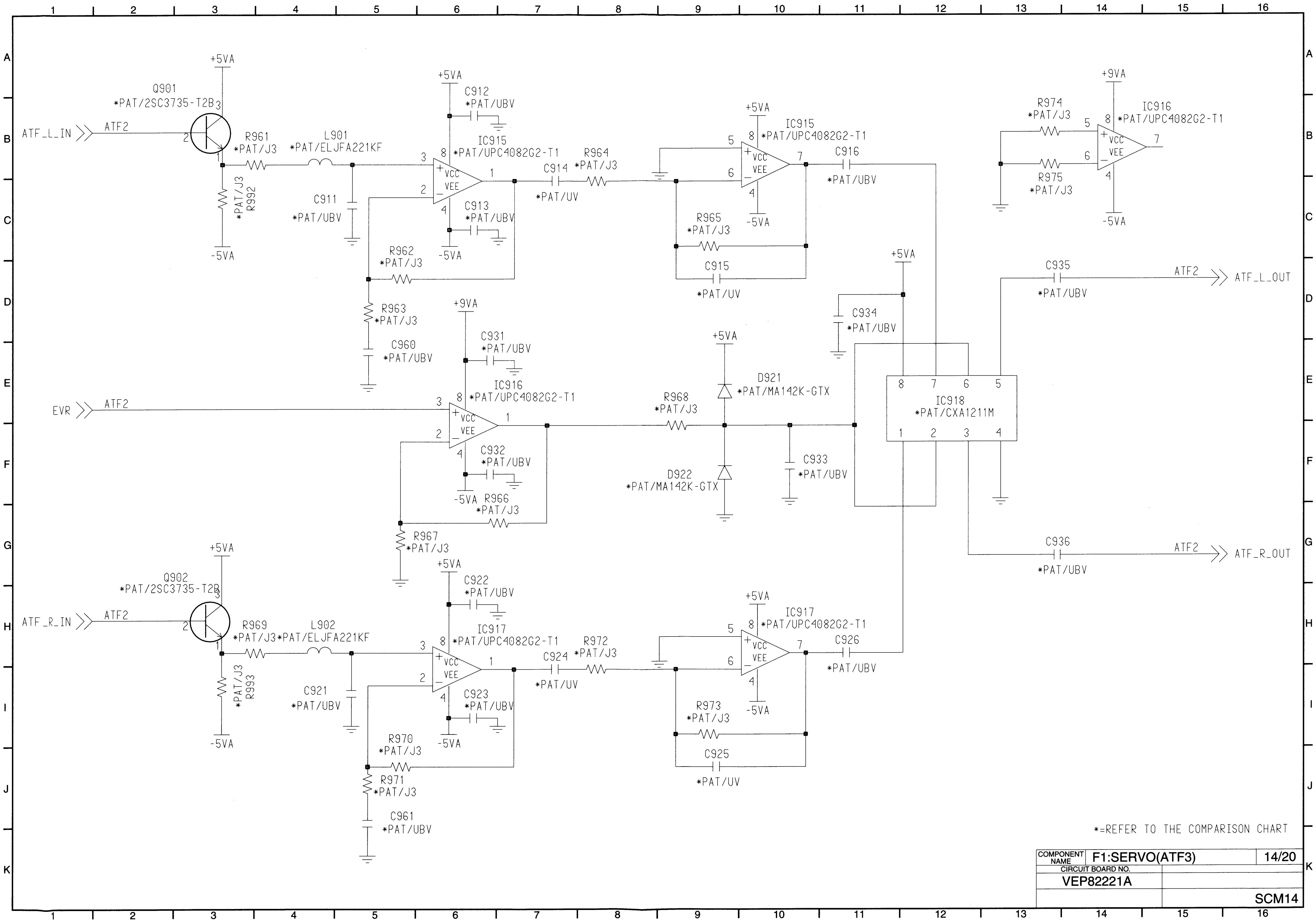
KR2D15(12/20)


ERR_L13
ERR_L13_LPF
ERR_L24
ERR_L24_LPF
ERR_R13
ERR_R13_LPF
SERVO_LOCK_L
ATF_LPF_L
ATF1
CPU4
IC821
MC14053BF-R
R871 100/J3
R872 100/J3
R873 100/J3
R874 100/J3
R875 100/J3
R876 100/J3
R665 *PAT/J3
R666 0/J3
C829 0.01/UBV
C830 0.01/UBV
+5VA
-5VA
R949 *PAT/J3
R947 *PAT/J3
R948 0/J3
AD_DA
ATF_ERR_L13
ATF_ERR_L24
ATF_ERR_R13
ATF3
ATF_R_IN
ATF_R_OUT
ATF_L_IN
ATF_L_OUT
DV_HEAD_H
(PB13_HEAD_L) REC_HEAD_L
R673 0/J3
R563 *PAT/J3
D914 *PAT/MA147-GTX
D913 MA147-GTX
D713 MA147-GTX
D712 MA147-GTX
D912 *PAT/MA147-GTX
D911 MA147-GTX
D714 MA147-GTX
D711 MA147-GTX
+3VA
(PB_L13_ATF) RP_L_ATF
(PB_L24_ATF) PB_L_ATF
(DV_L_ATF) RP_L_RF
(DV_R_ATF) PB_L_RF
(PB_R13_ATF) RP_R_ATF
(PB_R24_ATF) PB_R_ATF
(DV_R_ENV) RP_R_RF
(DV_L_ENV) PB_R_RF
(DV_R_HSW) PB_L_ATF_GAIN
(DV_L_HSW) RP_L_ATF_GAIN
IF
AD_DA, IF
IF, AD_DA
CPU4, IF
R741 100/J3
R775 100/J3
R950 100/J3
R951 *PAT/J3
R674 100/J3
R761 100/J3
R774 100/J3
R952 *PAT/J3
R953 *PAT/J3
R954 *PAT/J3
R955 *PAT/J3
R675 0/J3
R676 0/J3
IC910
MC14052BF-R
C903 0.01/UBV
C904 0.01/UBV
IC911
*PAT/MC14053BF-R
R677 0/J3
R678 0/J3
C901 *PAT/UBV
C902 *PAT/UBV
ATF_L
ATF_R
EVR
RP_L_LIMIT
PB_L_LIMIT
RP_R_LIMIT
PB_R_LIMIT
IC324 T74VHCU04FT1
R864 100K/J3
R865 100/J6
R866 0/J3
X801 VSX0645-B 41.85MHZ
C827 8P/UV
C828 8P/UV
R956 *PAT/J3
R330 100K/J3
R656 270/J6
X320 VSX0919 41.715MHZ
C335 5P/UV
C336 5P/UV
D916 *PAT/MA147-GTX
D915 *PAT/MA147-GTX
(25H_50L) CLK_SEL
R782 100/J3
R957 *PAT/J3
IC715
NVHC157FTEL
R679 0/J3
IC716 TC7WU04FT12L
R331 220/J3
R332 1000/J3
C751 0.1/UBV
C752 0.1/UBV
CLK_L13
CLK_R13
R853 *PAT/J3
R797 0/J3
R851 *PAT/J3
C851 *PAT/UBV
C852 *PAT/UBV
R852 *PAT/J3
CLK_L24
CLK_R24
R798 *PAT/J3
R793 100K/J3
R794 300/J6
X701 VSX0918 25MHZ
C740 15P/UV
C741 15P/UV
VCC
IC325 74AC74SJ-R1
R795 0/J3
R796 *PAT/J3
CPU1
25MHZ
R754 0/J3
IC706 *PAT/TC7WU04FT12L
R783 0/J3
R784 0/J3
IC904 TC7WU04FT12L
R976 *PAT/J3
R977 *PAT/J3
R978 *PAT/J3
R979 *PAT/J3
IC913 *PAT/NVHC74FTEL
+3V_ATF
SPA_REC
IF, CPU1
R958 *PAT/J3
R959 *PAT/J3
ATF_TOUT8
ATF_TOUT(0:7)
IC912 *PAT/MC74HC574AFR
ATF_D(0:7)
C738 0.01/UBV
C333 0.01/UBV
C337 0.01/UBV
C742 0.01/UBV
+3VD
C736 *PAT/UBV
C905 *PAT/UBV
C955 *PAT/UBV
IC715 NVHC157FTEL
IC325 74AC74SJ-R1
IC324 T74VHCU04FT1
IC716 TC7WU04FT12L
IC706 *PAT/TC7WU04FT12L
IC912 *PAT/MC74HC574AFR
IC913 *PAT/NVHC74FTEL

*PAT=PATTERN ONLY

COMPONENT NAME	F1:SERVO(ATF2)	13/20
CIRCUIT BOARD NO.		
VEP82221A		
		SCM13

KR2D15(13/20)

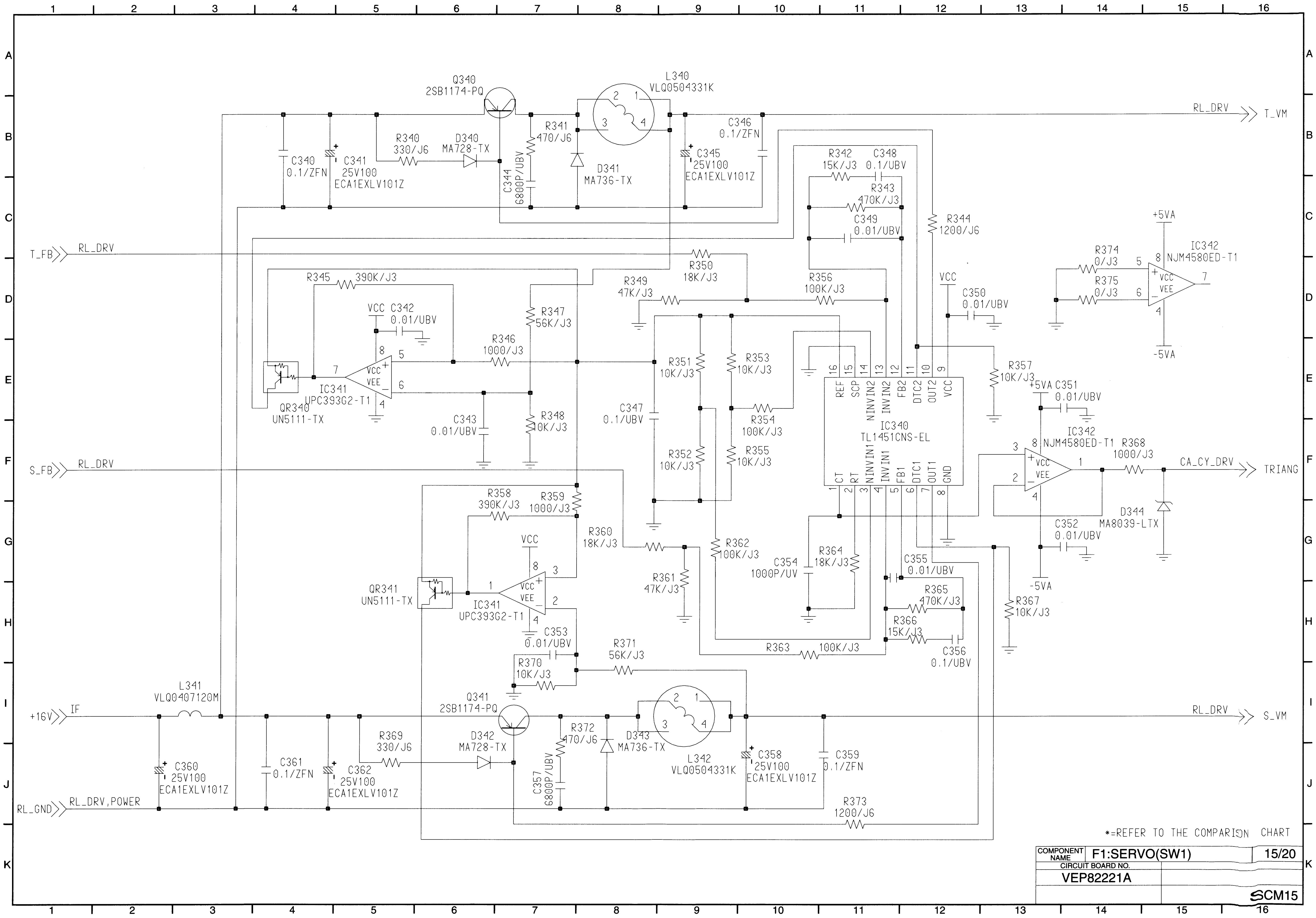


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K
ATF_L_IN
ATF2
Q901
*PAT/2SC3735-T2B
+5VA
-5VA
R961
*PAT/J3
L901
*PAT/ELJFA221KF
R992
*PAT/J3
C911
*PAT/UBV
C912
*PAT/UBV
IC915
*PAT/UPC4082G2-T1
C913
*PAT/UBV
R962
*PAT/J3
R963
*PAT/J3
C960
*PAT/UBV
C914
*PAT/UV
R964
*PAT/J3
R965
*PAT/J3
C915
*PAT/UV
C916
*PAT/UBV
R974
*PAT/J3
R975
*PAT/J3
IC916
*PAT/UPC4082G2-T1
+9VA
C935
*PAT/UBV
ATF2
ATF_L_OUT
C934
*PAT/UBV
EVR
ATF2
C931
*PAT/UBV
C932
*PAT/UBV
R966
*PAT/J3
R967
*PAT/J3
R968
*PAT/J3
D921
*PAT/MA142K-GTX
D922
*PAT/MA142K-GTX
C933
*PAT/UBV
IC918
*PAT/CXA1211M
C936
*PAT/UBV
ATF2
ATF_R_OUT
ATF_R_IN
ATF2
Q902
*PAT/2SC3735-T2B
R969
*PAT/J3
L902
*PAT/ELJFA221KF
R993
*PAT/J3
C921
*PAT/UBV
C922
*PAT/UBV
IC917
*PAT/UPC4082G2-T1
C923
*PAT/UBV
R970
*PAT/J3
R971
*PAT/J3
C961
*PAT/UBV
C924
*PAT/UV
R972
*PAT/J3
R973
*PAT/J3
C925
*PAT/UV
C926
*PAT/UBV
VCC
VEE

*=REFER TO THE COMPARISON CHART

COMPONENT NAME	F1:SERVO(ATF3)	14/20
CIRCUIT BOARD NO.		
VEP82221A		
		SCM14

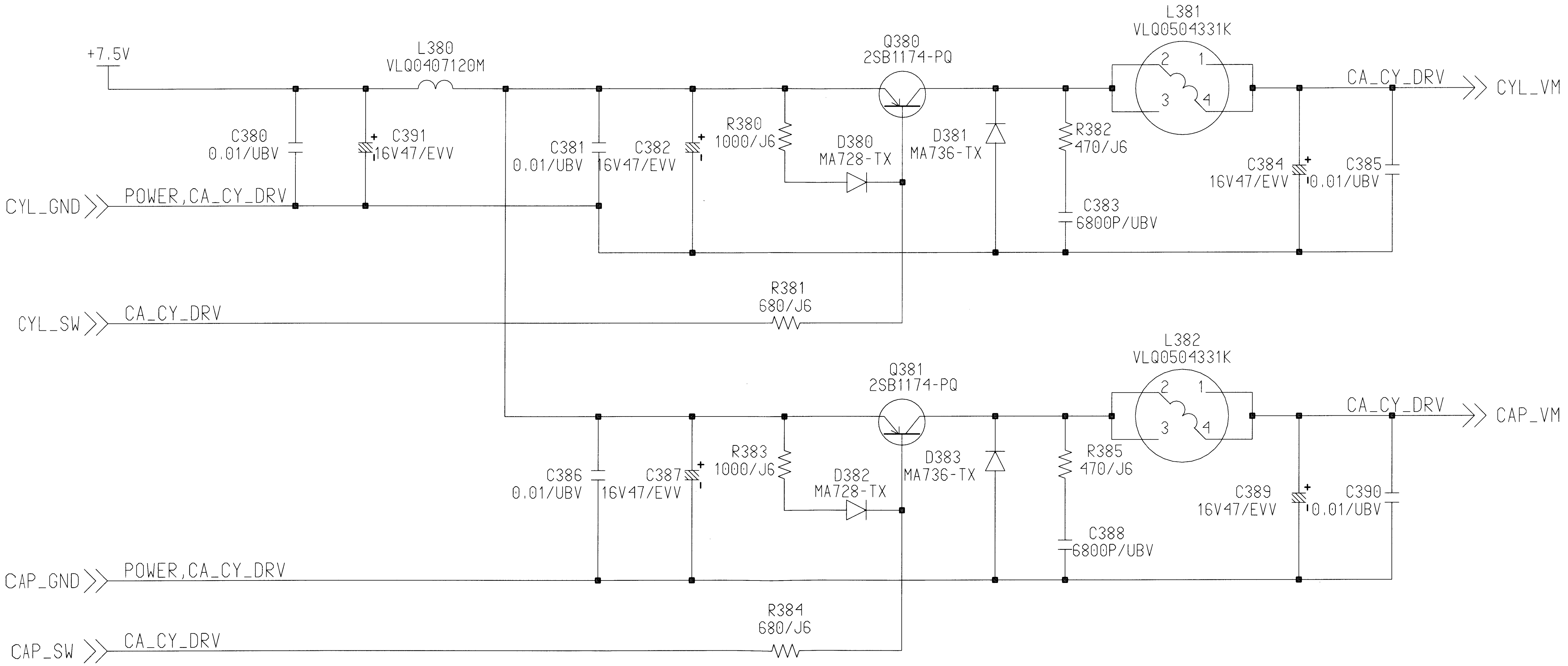
KR2D15(14/20)


Q340
2SB1174-PQ
L340
VLQ0504331K
RL_DRV
T_VM
R341
470/J6
C346
0.1/ZFN
R340
330/J6
D340
MA728-TX
C340
0.1/ZFN
C341
25V100
ECA1EXLV101Z
C344
6800P/UBV
D341
MA736-TX
C345
25V100
ECA1EXLV101Z
R342
15K/J3
C348
0.1/UBV
R343
470K/J3
C349
0.01/UBV
R344
1200/J6
+5VA
IC342
NJM4580ED-T1
R374
0/J3
R375
0/J3
-5VA
T_FB
RL_DRV
R350
18K/J3
R345
390K/J3
R349
47K/J3
R356
100K/J3
VCC
C350
0.01/UBV
VCC
C342
0.01/UBV
R347
56K/J3
R346
1000/J3
R351
10K/J3
R353
10K/J3
REF
SCP
NINVIN2
INVIN2
FB2
DTC2
OUT2
VCC
R357
10K/J3
+5VA
C351
0.01/UBV
IC341
UPC393G2-T1
QR340
UN5111-TX
C343
0.01/UBV
R348
10K/J3
C347
0.1/UBV
R354
100K/J3
IC340
TL1451CNS-EL
IC342
NJM4580ED-T1
R368
1000/J3
CA_CY_DRV
TRIANG
S_FB
RL_DRV
R352
10K/J3
R355
10K/J3
CT
RT
NINVIN1
INVIN1
FB1
DTC1
OUT1
GND
D344
MA8039-LTX
R358
390K/J3
R359
1000/J3
R360
18K/J3
R362
100K/J3
C352
0.01/UBV
VCC
R361
47K/J3
C354
1000P/UV
R364
18K/J3
C355
0.01/UBV
R365
470K/J3
QR341
UN5111-TX
IC341
UPC393G2-T1
C353
0.01/UBV
R366
15K/J3
R367
10K/J3
-5VA
R370
10K/J3
R371
56K/J3
R363
100K/J3
C356
0.1/UBV
L341
VLQ0407120M
+16V
IF
Q341
2SB1174-PQ
RL_DRV
S_VM
R369
330/J6
D342
MA728-TX
R372
470/J6
D343
MA736-TX
L342
VLQ0504331K
C358
25V100
ECA1EXLV101Z
C359
0.1/ZFN
C360
25V100
ECA1EXLV101Z
C361
0.1/ZFN
C362
25V100
ECA1EXLV101Z
C357
6800P/UBV
RL_GND
RL_DRV,POWER
R373
1200/J6

*=REFER TO THE COMPARISON CHART

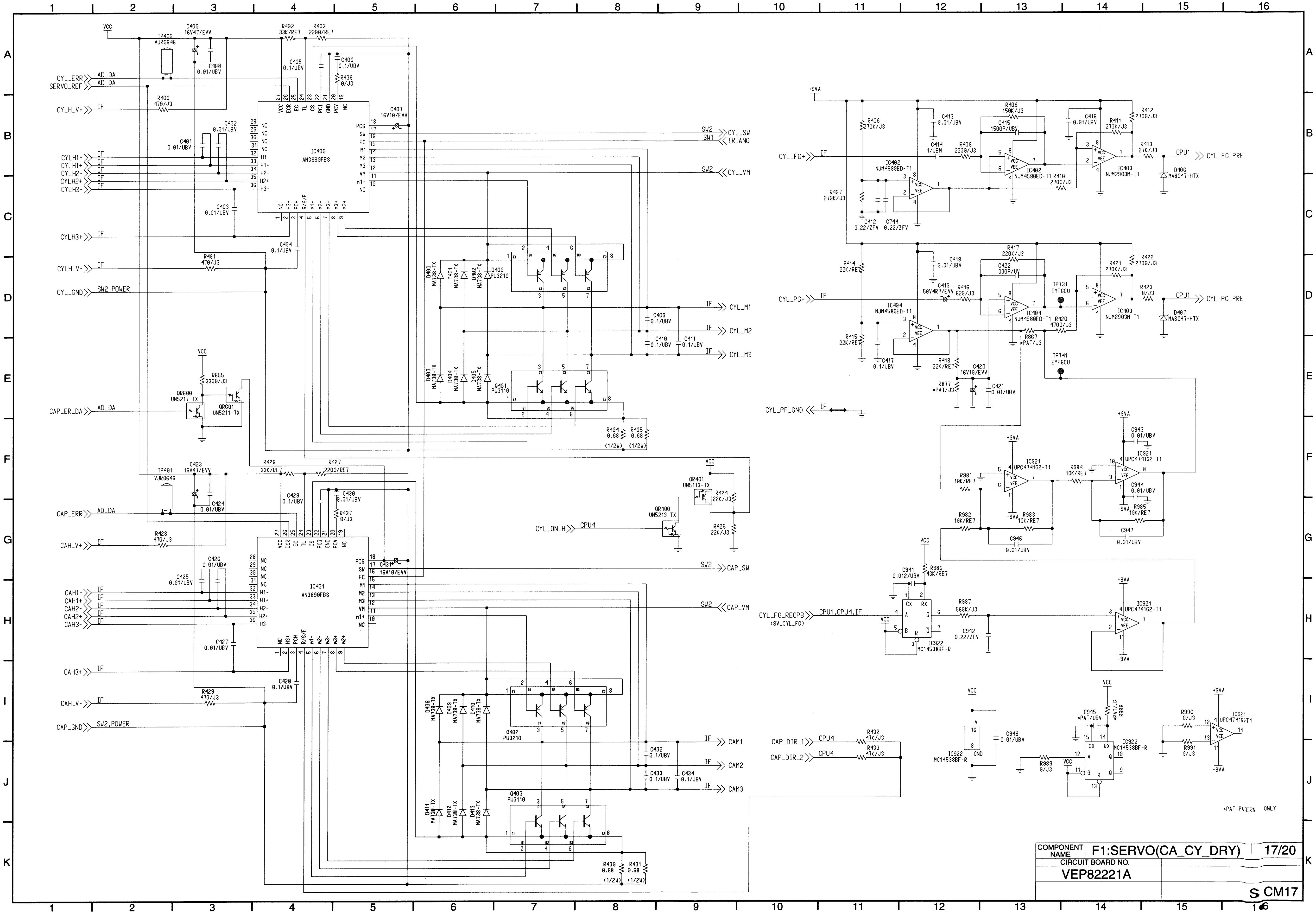
COMPONENT NAME	F1:SERVO(SW1)	15/20
CIRCUIT BOARD NO.		
VEP82221A		
		SCM15

KR2D15(15/20)


+7.5V
L380
VLQ0407120M
C380
0.01/UBV
C391
16V47/EVV
C381
0.01/UBV
C382
16V47/EVV
R380
1000/J6
D380
MA728-TX
Q380
2SB1174-PQ
D381
MA736-TX
R382
470/J6
C383
6800P/UBV
L381
VLQ0504331K
2
1
3
4
C384
16V47/EVV
C385
0.01/UBV
CA_CY_DRV
CYL_VM
CYL_GND
POWER,CA_CY_DRV
CYL_SW
CA_CY_DRV
R381
680/J6
Q381
2SB1174-PQ
L382
VLQ0504331K
2
1
3
4
CA_CY_DRV
CAP_VM
C386
0.01/UBV
C387
16V47/EVV
R383
1000/J6
D382
MA728-TX
D383
MA736-TX
R385
470/J6
C388
6800P/UBV
C389
16V47/EVV
C390
0.01/UBV
CAP_GND
POWER,CA_CY_DRV
CAP_SW
CA_CY_DRV
R384
680/J6

COMPONENT NAME	F1:SERVO(SW2)	16/20
CIRCUIT BOARD NO.		
VEP82221A		
		SCM16

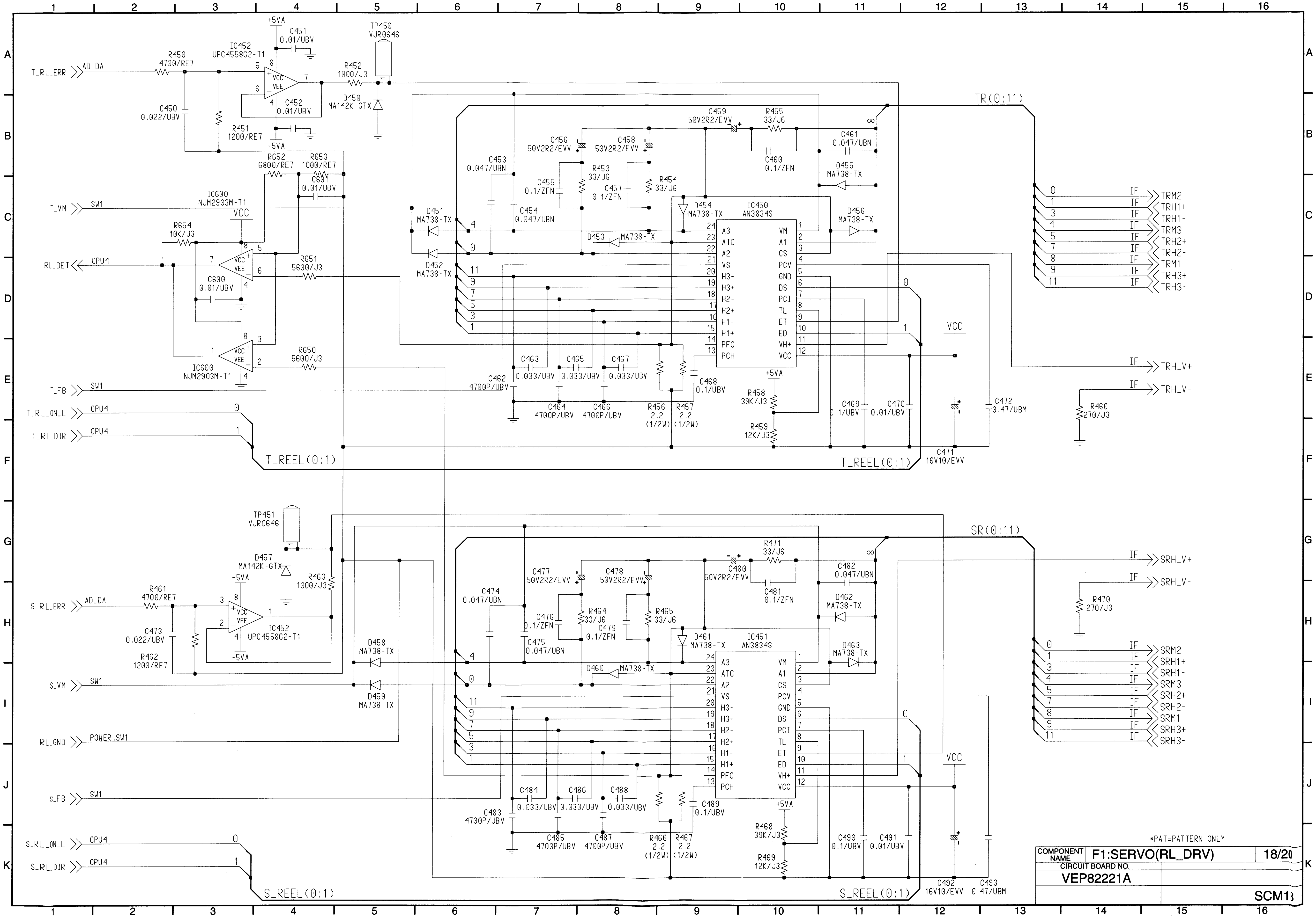
KR2D15(16/20)



VCC
TP400
VJR0646
C400
16V47/EVV
C408
0.01/UBV
R402
33K/RE7
R403
2200/RE7
C405
0.1/UBV
C406
0.1/UBV
R436
0/J3
CYL_ERR
SERVO_REF
AD_DA
CYLH_V+
R400
470/J3
C407
16V10/EVV
IC400
AN3890FBS
CYLH1-
CYLH1+
CYLH2-
CYLH2+
CYLH3-
CYLH3+
CYLH_V-
CYL_GND
SW2,POWER
C401
0.01/UBV
C402
0.01/UBV
C403
0.01/UBV
C404
0.1/UBV
R401
470/J3
SW2
CYL_SW
SW1
TRIANG
CYL_VM
D400
D401
D402
D403
D404
D405
MA738-TX
Q400
PU3210
Q401
PU3110
C409
0.1/UBV
C410
0.1/UBV
C411
0.1/UBV
CYL_M1
CYL_M2
CYL_M3
R404
0.68
R405
0.68
(1/2W)
VCC
R655
3300/J3
QR600
UN5217-TX
QR601
UN5211-TX
CAP_ER_DA
TP401
VJR0646
C423
16V47/EVV
C424
0.01/UBV
R426
33K/RE7
R427
2200/RE7
C429
0.1/UBV
C430
0.01/UBV
R437
0/J3
C431
16V10/EVV
CAP_ERR
CAH_V+
R428
470/J3
IC401
AN3890FBS
C425
0.01/UBV
C426
0.01/UBV
CAH1-
CAH1+
CAH2-
CAH2+
CAH3-
CAH3+
C427
0.01/UBV
C428
0.1/UBV
CAH_V-
R429
470/J3
CAP_GND
CAP_SW
CAP_VM
D408
D409
D410
D411
D412
D413
Q402
PU3210
Q403
PU3110
C432
0.1/UBV
C433
0.1/UBV
C434
0.1/UBV
CAM1
CAM2
CAM3
R430
0.68
R431
0.68
QR401
UN5113-TX
R424
22K/J3
QR400
UN5213-TX
R425
22K/J3
CYL_ON_H
CPU4
+9VA
R406
270K/J3
C413
0.01/UBV
R409
150K/J3
C415
1500P/UBV
C416
0.01/UBV
R411
270K/J3
R412
2700/J3
CYL_FG+
C414
1/UBM
R408
2200/J3
IC402
NJM4580ED-T1
R410
2700/J3
IC403
NJM2903M-T1
R413
27K/J3
CPU1
CYL_FG_PRE
D406
MA8047-HTX
R407
270K/J3
C412
0.22/ZFV
C744
0.22/ZFV
C418
0.01/UBV
R417
220K/J3
C422
330P/UV
R421
270K/J3
R422
2700/J3
R414
22K/RE7
CYL_PG+
C419
50V4R7/EVV
R416
620/J3
TP731
EYF6CU
R423
0/J3
CYL_PG_PRE
IC404
NJM4580ED-T1
R420
4700/J3
D407
MA8047-HTX
R415
22K/RE7
C417
0.1/UBV
R418
22K/RE7
C420
16V10/EVV
R867
*PAT/J3
TP741
EYF6CU
R877
*PAT/J3
C421
0.01/UBV
CYL_PF_GND
C943
0.01/UBV
IC921
UPC4741G2-T1
R981
10K/RE7
R984
10K/RE7
C944
0.01/UBV
R985
10K/RE7
R982
10K/RE7
R983
10K/RE7
C946
0.01/UBV
C947
0.01/UBV
-9VA
C941
0.012/UBV
R986
43K/RE7
R987
560K/J3
CYL_FG_RECPB
(SV_CYL_FG)
CPU1,CPU4,IF
C942
0.22/ZFV
IC922
MC14538BF-R
C948
0.01/UBV
C945
*PAT/UBV
R988
*PAT/J3
R989
0/J3
R990
0/J3
R991
0/J3
CAP_DIR_1
CAP_DIR_2
R432
47K/J3
R433
47K/J3
*PAT=PATERN ONLY

COMPONENT NAME	F1:SERVO(CA_CY_DRY)	17/20
CIRCUIT BOARD NO.		
VEP82221A		
		S CM17

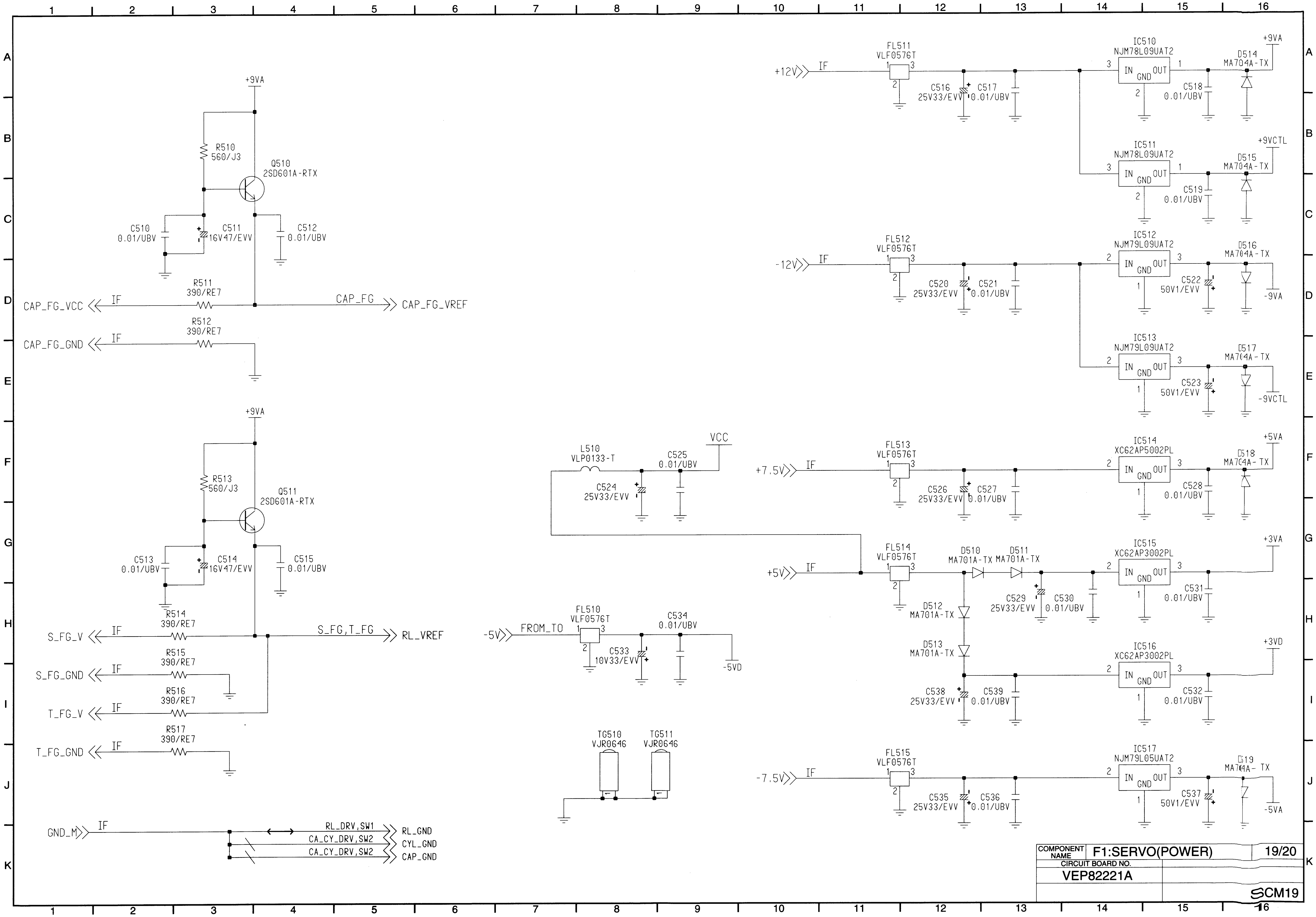
KR2D15(17/20)


T_RL_ERR
AD_DA
R450 4700/RE7
C450 0.022/UBV
R451 1200/RE7
IC452 UPC4558G2-T1
+5VA
-5VA
C451 0.01/UBV
C452 0.01/UBV
TP450 VJR0646
R452 1000/J3
D450 MA142K-GTX
T_VM
SW1
IC600 NJM2903M-T1
R652 6800/RE7
R653 1000/RE7
C601 0.01/UBV
VCC
R654 10K/J3
RL_DET
CPU4
C600 0.01/UBV
R651 5600/J3
R650 5600/J3
T_FB
T_RL_ON_L
T_RL_DIR
T_REEL(0:1)
TR(0:11)
D451 MA738-TX
D452 MA738-TX
C453 0.047/UBN
C454 0.047/UBN
C455 0.1/ZFN
C456 50V2R2/EVV
R453 33/J6
C457 0.1/ZFN
C458 50V2R2/EVV
R454 33/J6
D453 MA738-TX
C459 50V2R2/EVV
R455 33/J6
C460 0.1/ZFN
C461 0.047/UBN
D455 MA738-TX
D454 MA738-TX
IC450 AN3834S
D456 MA738-TX
A3 ATC A2 VS H3- H3+ H2- H2+ H1- H1+ PFG PCH
VM A1 CS PCV GND DS PCI TL ET ED VH+ VCC
C462 4700P/UBV
C463 0.033/UBV
C464 4700P/UBV
C465 0.033/UBV
C466 4700P/UBV
C467 0.033/UBV
R456 2.2 (1/2W)
R457 2.2 (1/2W)
C468 0.1/UBV
R458 39K/J3
R459 12K/J3
C469 0.1/UBV
C470 0.01/UBV
C471 16V10/EVV
C472 0.47/UBM
R460 270/J3
TRM2 TRH1+ TRH1- TRM3 TRH2+ TRH2- TRM1 TRH3+ TRH3-
TRH_V+
TRH_V-
IF
TP451 VJR0646
D457 MA142K-GTX
R463 1000/J3
S_RL_ERR
R461 4700/RE7
C473 0.022/UBV
R462 1200/RE7
IC452 UPC4558G2-T1
S_VM
RL_GND
POWER,SW1
S_FB
S_RL_ON_L
S_RL_DIR
S_REEL(0:1)
SR(0:11)
D458 MA738-TX
D459 MA738-TX
C474 0.047/UBN
C475 0.047/UBN
C476 0.1/ZFN
C477 50V2R2/EVV
R464 33/J6
C478 50V2R2/EVV
C479 0.1/ZFN
R465 33/J6
D460 MA738-TX
C480 50V2R2/EVV
R471 33/J6
C481 0.1/ZFN
C482 0.047/UBN
D462 MA738-TX
D461 MA738-TX
IC451 AN3834S
D463 MA738-TX
C483 4700P/UBV
C484 0.033/UBV
C485 4700P/UBV
C486 0.033/UBV
C487 4700P/UBV
C488 0.033/UBV
R466 2.2 (1/2W)
R467 2.2 (1/2W)
C489 0.1/UBV
R468 39K/J3
R469 12K/J3
C490 0.1/UBV
C491 0.01/UBV
C492 16V10/EVV
C493 0.47/UBM
R470 270/J3
SRH_V+
SRH_V-
SRM2 SRH1+ SRH1- SRM3 SRH2+ SRH2- SRM1 SRH3+ SRH3-

*PAT=PATTERN ONLY

COMPONENT NAME	F1:SERVO(RL_DRV)	18/2(
CIRCUIT BOARD NO.		
VEP82221A		SCM1(

KR2D15(18/20)


+9VA
R510
560/J3
Q510
2SD601A-RTX
C510
0.01/UBV
C511
16V47/EVV
C512
0.01/UBV
R511
390/RE7
CAP_FG_VCC
IF
CAP_FG
CAP_FG_VREF
R512
390/RE7
CAP_FG_GND
+9VA
R513
560/J3
Q511
2SD601A-RTX
C513
0.01/UBV
C514
16V47/EVV
C515
0.01/UBV
R514
390/RE7
S_FG_V
S_FG,T_FG
RL_VREF
R515
390/RE7
S_FG_GND
R516
390/RE7
T_FG_V
R517
390/RE7
T_FG_GND
GND_M
RL_DRV,SW1
RL_GND
CA_CY_DRV,SW2
CYL_GND
CA_CY_DRV,SW2
CAP_GND
L510
VLP0133-T
C524
25V33/EVV
C525
0.01/UBV
VCC
-5V
FROM_TO
FL510
VLF0576T
C533
10V33/EVV
C534
0.01/UBV
-5VD
TG510
VJR0646
TG511
VJR0646
+12V
FL511
VLF0576T
C516
25V33/EVV
C517
0.01/UBV
IC510
NJM78L09UAT2
IN GND OUT
C518
0.01/UBV
D514
MA704A-TX
+9VA
IC511
NJM78L09UAT2
C519
0.01/UBV
D515
MA704A-TX
+9VCTL
-12V
FL512
VLF0576T
C520
25V33/EVV
C521
0.01/UBV
IC512
NJM79L09UAT2
C522
50V1/EVV
D516
MA704A-TX
-9VA
IC513
NJM79L09UAT2
C523
50V1/EVV
D517
MA704A-TX
-9VCTL
+7.5V
FL513
VLF0576T
C526
25V33/EVV
C527
0.01/UBV
IC514
XC62AP5002PL
C528
0.01/UBV
D518
MA704A-TX
+5VA
+5V
FL514
VLF0576T
D510
MA701A-TX
D511
MA701A-TX
C529
25V33/EVV
C530
0.01/UBV
IC515
XC62AP3002PL
C531
0.01/UBV
+3VA
D512
MA701A-TX
D513
MA701A-TX
C538
25V33/EVV
C539
0.01/UBV
IC516
XC62AP3002PL
C532
0.01/UBV
+3VD
-7.5V
FL515
VLF0576T
C535
25V33/EVV
C536
0.01/UBV
IC517
NJM79L05UAT2
C537
50V1/EVV
D519
MA704A-TX
-5VA
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

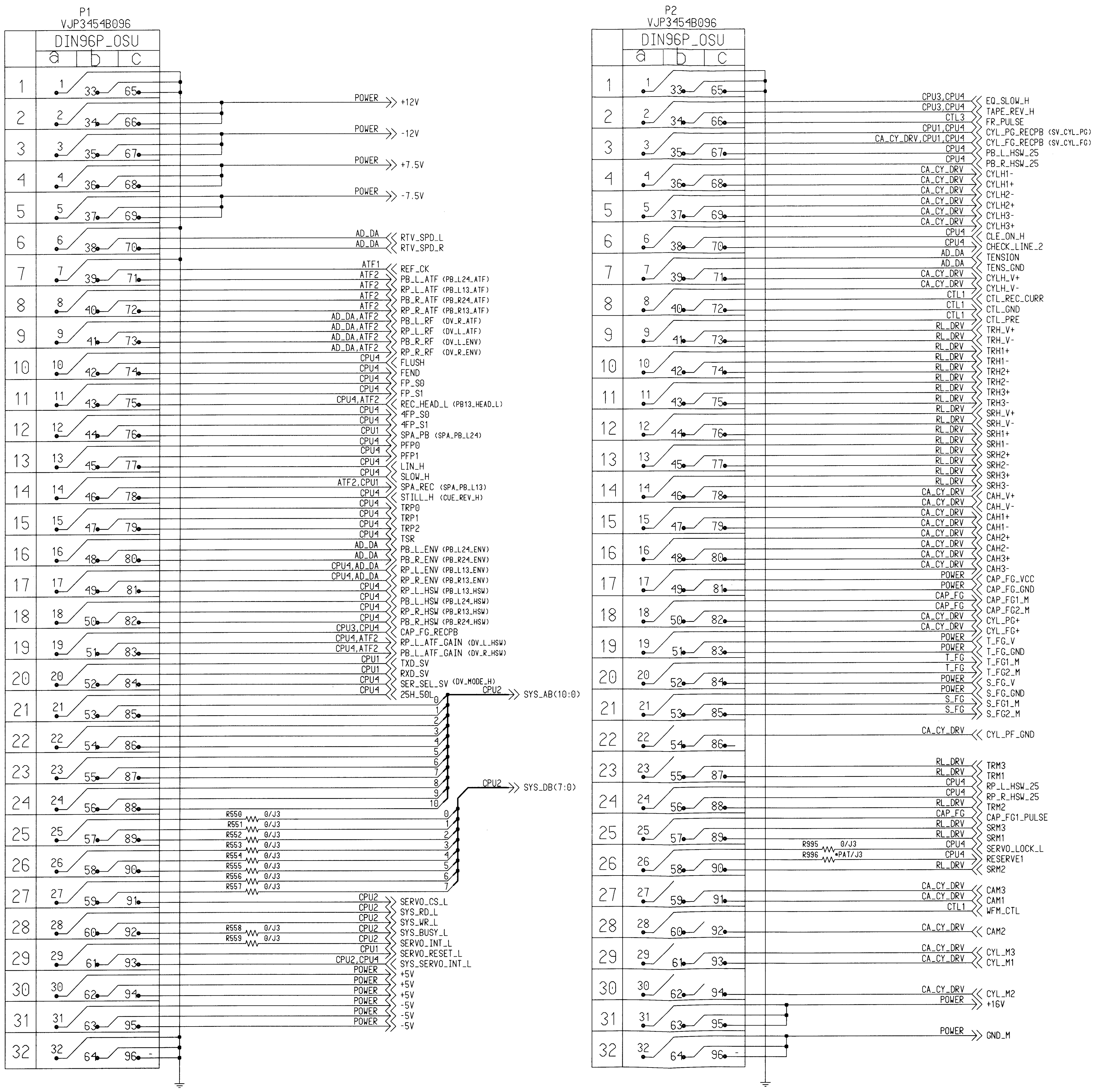
COMPONENT NAME F1:SERVO(POWER) 19/20

CIRCUIT BOARD NO.

VEP82221A

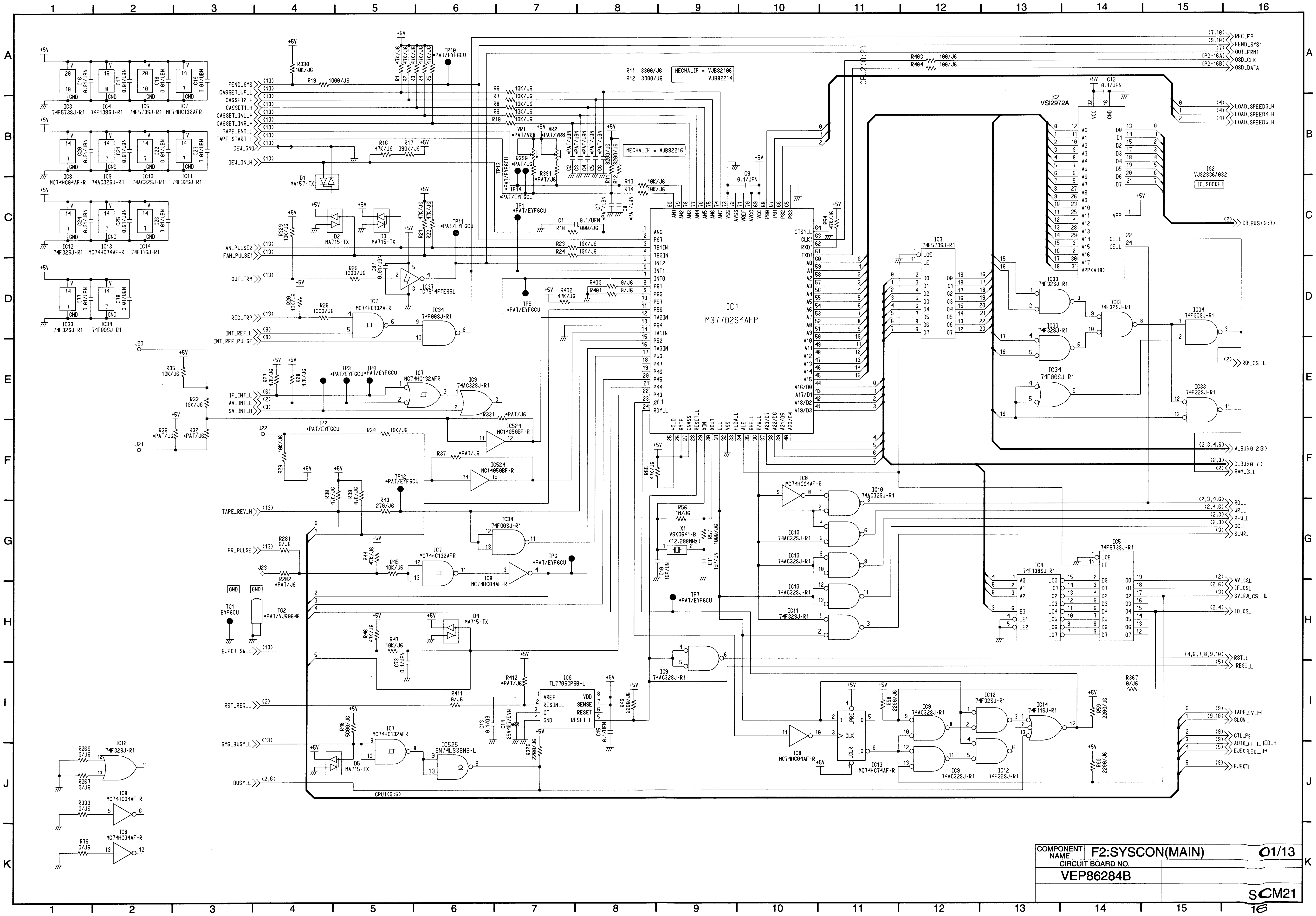
SCM19

KR2D15(19/20)


P1
VJP3454B096
DIN96P_OSU
a
b
c
POWER +12V
POWER -12V
POWER +7.5V
POWER -7.5V
AD_DA RTV_SPD_L
AD_DA RTV_SPD_R
ATF1 REF_CK
ATF2 PB_L_ATF (PB_L24_ATF)
ATF2 RP_L_ATF (PB_L13_ATF)
ATF2 PB_R_ATF (PB_R24_ATF)
ATF2 RP_R_ATF (PB_R13_ATF)
AD_DA,ATF2 PB_L_RF (DV_R_ATF)
AD_DA,ATF2 RP_L_RF (DV_L_ATF)
AD_DA,ATF2 PB_R_RF (DV_L_ENV)
AD_DA,ATF2 RP_R_RF (DV_R_ENV)
CPU4 FLUSH
CPU4 FEND
CPU4 FP_S0
CPU4 FP_S1
CPU4,ATF2 REC_HEAD_L (PB13_HEAD_L)
CPU4 4FP_S0
CPU4 4FP_S1
CPU1 SPA_PB (SPA_PB_L24)
CPU4 PFP0
CPU4 PFP1
CPU4 LIN_H
CPU4 SLOW_H
ATF2,CPU1 SPA_REC (SPA_PB_L13)
CPU4 STILL_H (CUE_REV_H)
CPU4 TRP0
CPU4 TRP1
CPU4 TRP2
CPU4 TSR
AD_DA PB_L_ENV (PB_L24_ENV)
AD_DA PB_R_ENV (PB_R24_ENV)
CPU4,AD_DA RP_L_ENV (PB_L13_ENV)
CPU4,AD_DA RP_R_ENV (PB_R13_ENV)
CPU4 RP_L_HSW (PB_L13_HSW)
CPU4 PB_L_HSW (PB_L24_HSW)
CPU4 RP_R_HSW (PB_R13_HSW)
CPU4 PB_R_HSW (PB_R24_HSW)
CPU3,CPU4 CAP_FG_RECPB
CPU4,ATF2 RP_L_ATF_GAIN (DV_L_HSW)
CPU4,ATF2 PB_L_ATF_GAIN (DV_R_HSW)
CPU1 TXD_SV
CPU1 RXD_SV
CPU4 SER_SEL_SV (DV_MODE_H)
CPU4 25H_50L
0 1 2 3 4 5 6 7 8 9 10
CPU2 SYS_AB(10:0)
CPU2 SYS_DB(7:0)
R550 0/J3
R551 0/J3
R552 0/J3
R553 0/J3
R554 0/J3
R555 0/J3
R556 0/J3
R557 0/J3
0 1 2 3 4 5 6 7
CPU2 SERVO_CS_L
CPU2 SYS_RD_L
CPU2 SYS_WR_L
R558 0/J3
R559 0/J3
CPU2 SYS_BUSY_L
CPU2 SERVO_INT_L
CPU1 SERVO_RESET_L
CPU2,CPU4 SYS_SERVO_INT_L
POWER +5V
POWER +5V
POWER +5V
POWER -5V
POWER -5V
POWER -5V
P2
VJP3454B096
DIN96P_OSU
a
b
c
CPU3,CPU4 EQ_SLOW_H
CPU3,CPU4 TAPE_REV_H
CTL3 FR_PULSE
CPU1,CPU4 CYL_PG_RECPB (SV_CYL_PG)
CA_CY_DRV,CPU1,CPU4 CYL_FG_RECPB (SV_CYL_FG)
CPU4 PB_L_HSW_25
CPU4 PB_R_HSW_25
CA_CY_DRV CYLH1-
CA_CY_DRV CYLH1+
CA_CY_DRV CYLH2-
CA_CY_DRV CYLH2+
CA_CY_DRV CYLH3-
CA_CY_DRV CYLH3+
CPU4 CLE_ON_H
CPU4 CHECK_LINE_2
AD_DA TENSION
AD_DA TENS_GND
CA_CY_DRV CYLH_V+
CA_CY_DRV CYLH_V-
CTL1 CTL_REC_CURR
CTL1 CTL_GND
CTL1 CTL_PRE
RL_DRV TRH_V+
RL_DRV TRH_V-
RL_DRV TRH1+
RL_DRV TRH1-
RL_DRV TRH2+
RL_DRV TRH2-
RL_DRV TRH3+
RL_DRV TRH3-
RL_DRV SRH_V+
RL_DRV SRH_V-
RL_DRV SRH1+
RL_DRV SRH1-
RL_DRV SRH2+
RL_DRV SRH2-
RL_DRV SRH3+
RL_DRV SRH3-
CA_CY_DRV CAH_V+
CA_CY_DRV CAH_V-
CA_CY_DRV CAH1+
CA_CY_DRV CAH1-
CA_CY_DRV CAH2+
CA_CY_DRV CAH2-
CA_CY_DRV CAH3+
CA_CY_DRV CAH3-
POWER CAP_FG_VCC
POWER CAP_FG_GND
CAP_FG CAP_FG1_M
CAP_FG CAP_FG2_M
CA_CY_DRV CYL_PG+
CA_CY_DRV CYL_FG+
POWER T_FG_V
POWER T_FG_GND
T_FG T_FG1_M
T_FG T_FG2_M
POWER S_FG_V
POWER S_FG_GND
S_FG S_FG1_M
S_FG S_FG2_M
CA_CY_DRV CYL_PF_GND
RL_DRV TRM3
RL_DRV TRM1
CPU4 RP_L_HSW_25
CPU4 RP_R_HSW_25
RL_DRV TRM2
CAP_FG CAP_FG1_PULSE
RL_DRV SRM3
RL_DRV SRM1
R995 0/J3
R996 *PAT/J3
CPU4 SERVO_LOCK_L
CPU4 RESERVE1
RL_DRV SRM2
CA_CY_DRV CAM3
CA_CY_DRV CAM1
CTL1 WFM_CTL
CA_CY_DRV CAM2
CA_CY_DRV CYL_M3
CA_CY_DRV CYL_M1
CA_CY_DRV CYL_M2
POWER +16V
POWER GND_M

COMPONENT NAME	F1:SERVO(IF)	20/20
CIRCUIT BOARD NO.		
VEP82221A		
		SCM20

KR2D15(20/20)

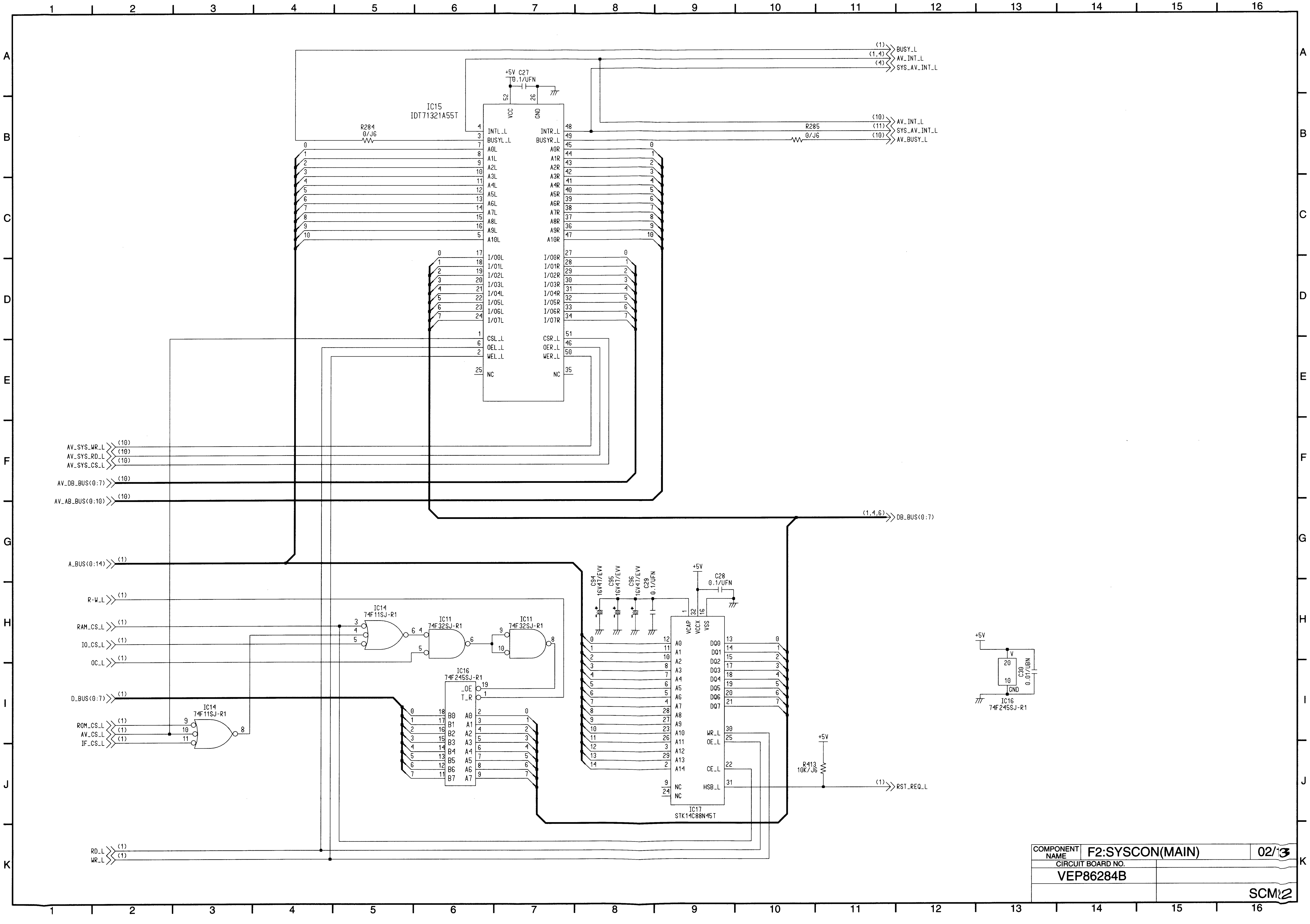

IC1
M37702S4AFP
IC2
VSI2972A
IS2
VJS2336A032
IC_SOCKET
IC3 74F573SJ-R1
IC4 74F138SJ-R1
IC5 74F573SJ-R1
IC6 TL7705CPSB-L
IC7 MC74HC132AFR
IC8 MC74HC04AF-R
IC9 74AC32SJ-R1
IC10 74AC32SJ-R1
IC11 74F32SJ-R1
IC12 74F32SJ-R1
IC13 MC74HC74AF-R
IC14 74F11SJ-R1
IC33 74F32SJ-R1
IC34 74F00SJ-R1
IC37 TC7S14FTE85L
IC524 MC14050BF-R
IC525 SN74LS38NS-L
X1 VSX0641-B (12.288MHz)
MECHA_IF = VJB82106 VJB82214
MECHA_IF = VJB82216
FEND_SYS
CASSET_UP_L
CASSET2_H
CASSET1_H
CASSET_INL_H
CASSET_INR_H
TAPE_END_L
TAPE_START_L
DEW_GND
DEW_ON_H
FAN_PULSE2
FAN_PULSE1
OUT_FRM
REC_FRP
INT_REF_L
INT_REF_PULSE
IF_INT_L
AV_INT_L
SV_INT_H
TAPE_REV_H
FR_PULSE
EJECT_SW_L
RST_REQ_L
SYS_BUSY_L
BUSY_L
REC_FP
FEND_SYS1
OUT_FRM1
OSD_CLK
OSD_DATA
LOAD_SPEED3_H
LOAD_SPEED4_H
LOAD_SPEED5_H
OE_BUS(0:7)
ROM_CS_L
A_BUS(0:23)
D_BUS(0:7)
RAM_G_L
RD_L
WR_L
R-W_L
OC_L
S_WR_L
AV_CSL
IF_CSL
SV_RA_CS_L
IO_CSL
RST_L
RESE_L
TAPE_EV_H
SLOW_
CTL_FS
AUTO_FF_L_ED_H
EJECT_ED_H
EJECT_L
CPU1(0:5)
CPU2(0:2)

COMPONENT NAME	F2:SYSCON(MAIN)	01/13
CIRCUIT BOARD NO.		
VEP86284B		

SCM21

16

KR6Q88(1/13)


IC15
IDT71321A55T
+5V C27
0.1/UFN
R284
0/J6
R285
0/J6
BUSY_L
AV_INT_L
SYS_AV_INT_L
AV_BUSY_L
AV_SYS_WR_L
AV_SYS_RD_L
AV_SYS_CS_L
AV_DB_BUS(0:7)
AV_AB_BUS(0:10)
DB_BUS(0:7)
A_BUS(0:14)
R-W_L
RAM_CS_L
IO_CS_L
OC_L
D_BUS(0:7)
ROM_CS_L
AV_CS_L
IF_CS_L
RD_L
WR_L
IC14
74F11SJ-R1
IC11
74F32SJ-R1
IC16
74F245SJ-R1
IC17
STK14C88N45T
C94 16V47/EVV
C95 16V47/EVV
C96 16V47/EVV
C29 0.1/UFN
C28 0.1/UFN
R413 10K/J6
RST_REQ_L
C30 0.01/UBN

COMPONENT NAME F2:SYSCON(MAIN) 02/13

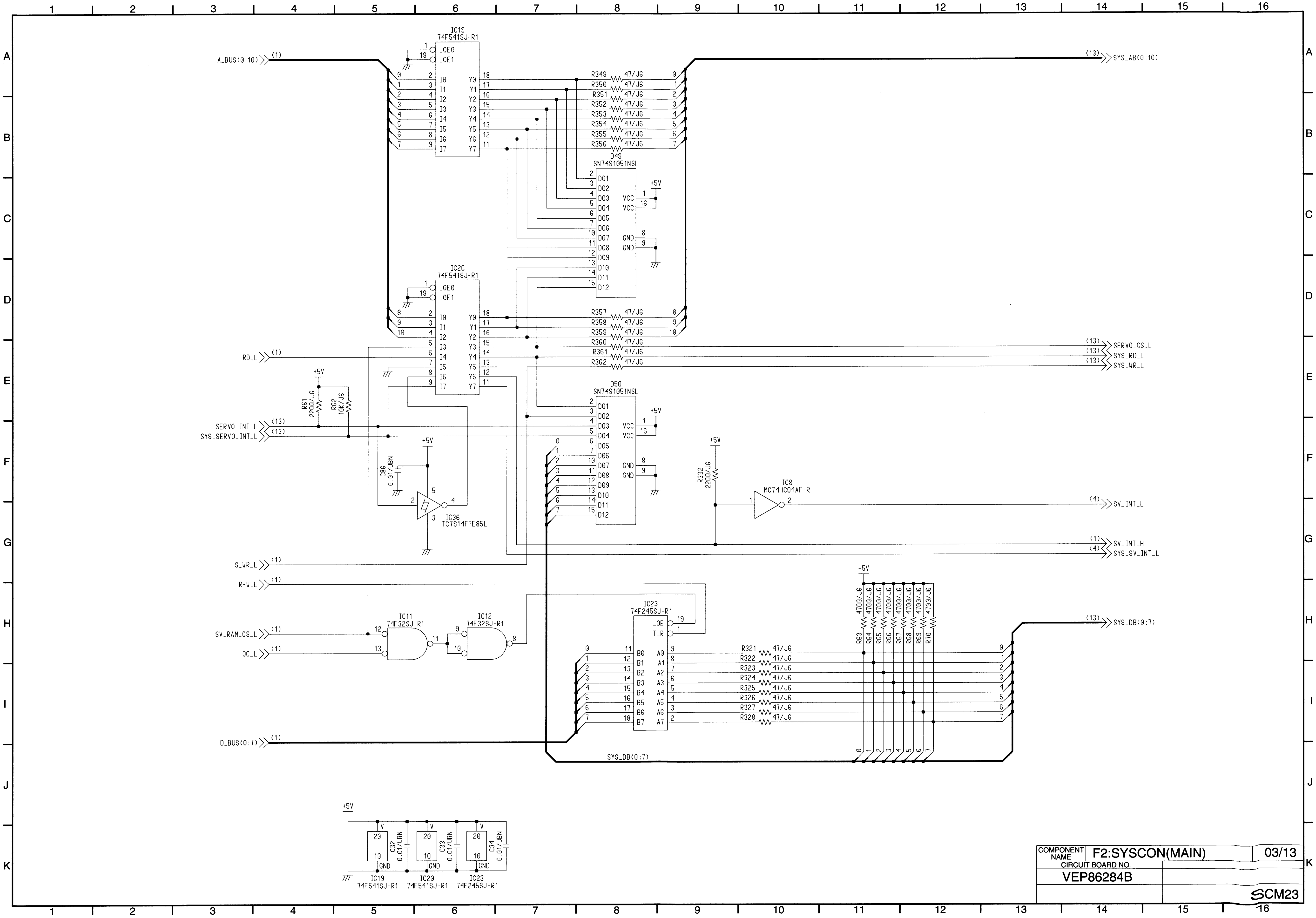
CIRCUIT BOARD NO.

VEP86284B

SCM2

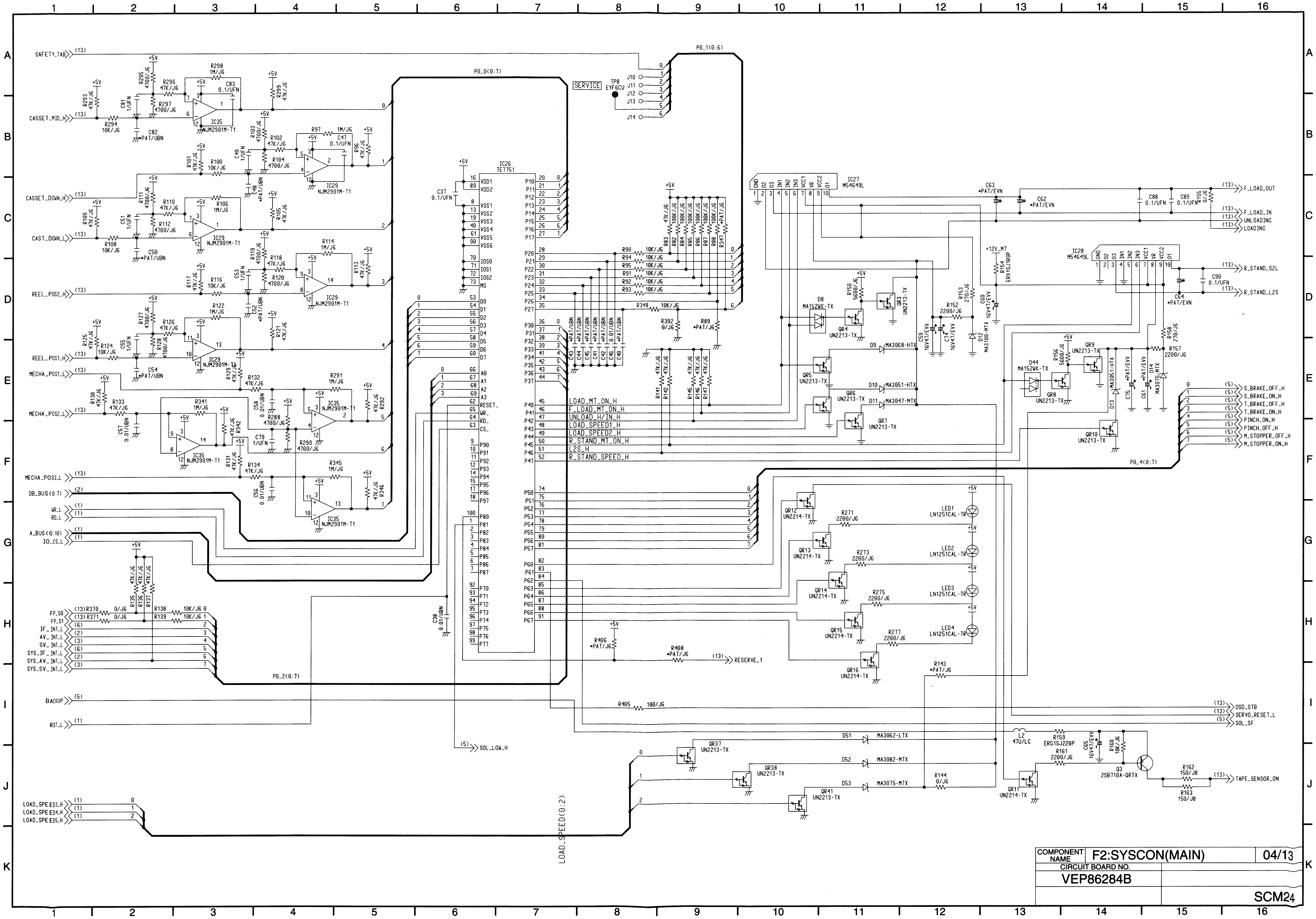
KR6Q88(2/13)

KR6Q88(3/13)


A_BUS(0:10)
SYS_AB(0:10)
IC19
74F541SJ-R1
IC20
74F541SJ-R1
_OE0
_OE1
R349 47/J6
R350 47/J6
R351 47/J6
R352 47/J6
R353 47/J6
R354 47/J6
R355 47/J6
R356 47/J6
R357 47/J6
R358 47/J6
R359 47/J6
R360 47/J6
R361 47/J6
R362 47/J6
D49
SN74S1051NSL
D50
SN74S1051NSL
+5V
VCC
GND
RD_L
SERVO_CS_L
SYS_RD_L
SYS_WR_L
R61 2200/J6
R62 10K/J6
SERVO_INT_L
SYS_SERVO_INT_L
C86 0.01/UBN
IC36
TC7S14FTE85L
R332 2200/J6
IC8
MC74HC04AF-R
SV_INT_L
SV_INT_H
SYS_SV_INT_L
S_WR_L
R-W_L
SV_RAM_CS_L
OC_L
IC11
74F32SJ-R1
IC12
74F32SJ-R1
IC23
74F245SJ-R1
_OE
T_R
R321 47/J6
R322 47/J6
R323 47/J6
R324 47/J6
R325 47/J6
R326 47/J6
R327 47/J6
R328 47/J6
R63
R64
R65
R66
R67
R68
R69
R70
4700/J6
SYS_DB(0:7)
D_BUS(0:7)
C32 0.01/UBN
C33 0.01/UBN
C34 0.01/UBN
IC19 74F541SJ-R1
IC20 74F541SJ-R1
IC23 74F245SJ-R1

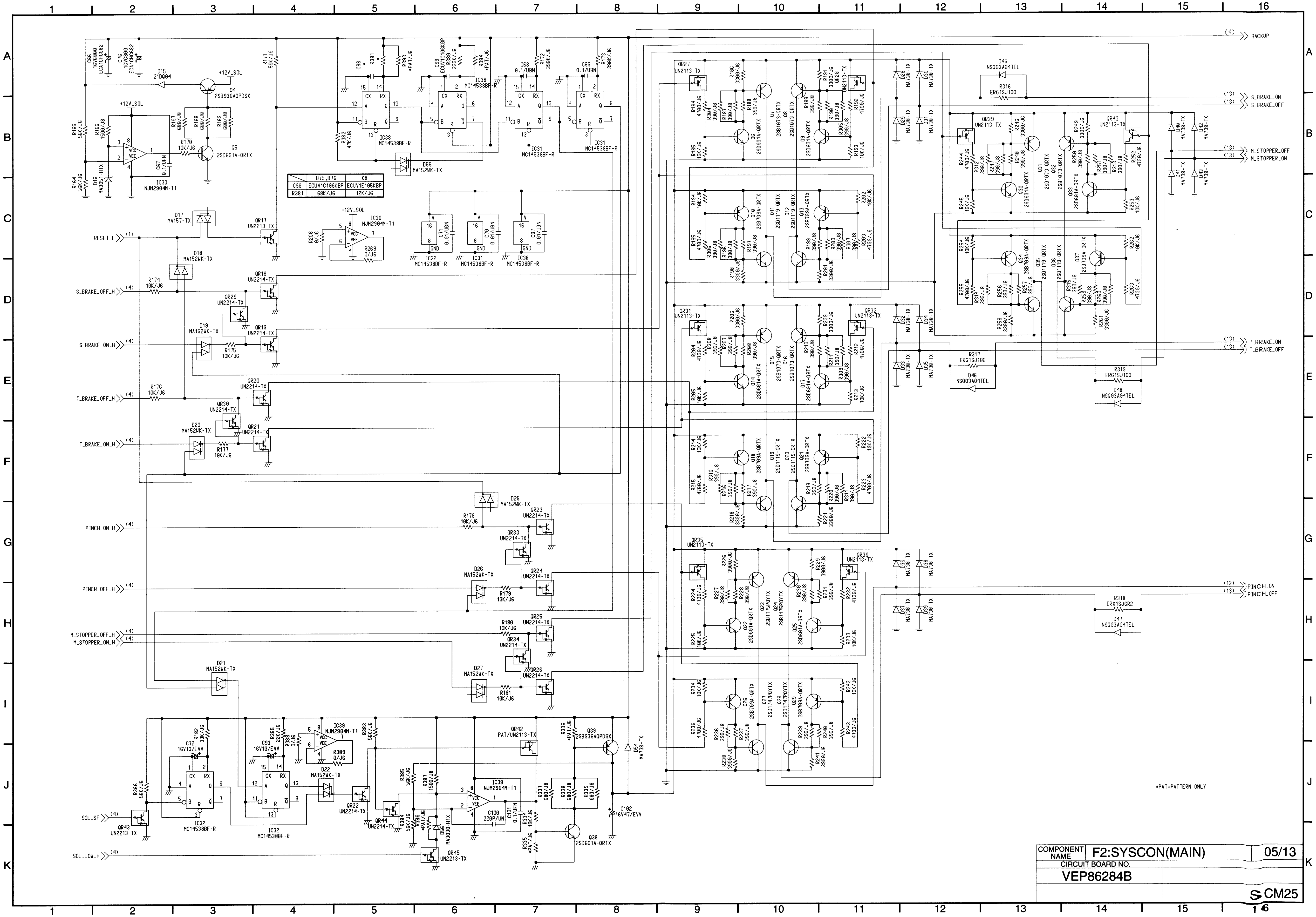
COMPONENT NAME	F2:SYSCON(MAIN)	03/13
CIRCUIT BOARD NO.		
VEP86284B		

SCM23


SAFETY_TAB
CASSET_MID_H
CASSET_DOWN_H
CAST_DOWN_L
REEL_POS2_H
REEL_POS1_H
MECHA_POS1_L
MECHA_POS2_L
MECHA_POS3_L
DB_BUS(0:7)
WR_L
RD_L
A_BUS(0:10)
IO_CS_L
FP_S0
FP_S1
IF_INT_L
AV_INT_L
SV_INT_L
SYS_IF_INT_L
SYS_AV_INT_L
SYS_SV_INT_L
BACKUP
RST_L
LOAD_SPEED3_H
LOAD_SPEED4_H
LOAD_SPEED5_H
IC26
TE7751
IC35
NJM2901M-T1
IC29
NJM2901M-T1
IC27
M54649L
IC28
M54649L
SERVICE
TP8
EYF6CU
J10
J11
J12
J13
J14
P0_0(0:7)
P0_1(0:6)
P0_2(0:7)
P0_4(0:7)
LOAD_MT_ON_H
F_LOAD_MT_ON_H
UNLOAD_H/IN_H
LOAD_SPEED1_H
LOAD_SPEED2_H
R_STAND_MT_ON_H
L2S_H
R_STAND_SPEED_H
F_LOAD_OUT
F_LOAD_IN
UNLOADING
LOADING
R_STAND_S2L
R_STAND_L2S
S_BRAKE_OFF_H
S_BRAKE_ON_H
T_BRAKE_OFF_H
T_BRAKE_ON_H
PINCH_ON_H
PINCH_OFF_H
M_STOPPER_OFF_H
M_STOPPER_ON_H
LED1
LED2
LED3
LED4
LN1251CAL-TR
RESERVE_1
OSD_STB
SERVO_RESET_L
SOL_SF
SOL_LOW_H
TAPE_SENSOR_ON
LOAD_SPEED(0:2)
Q3
2SB710A-QRTX
L2
47U/LC
+5V
+12V_MT

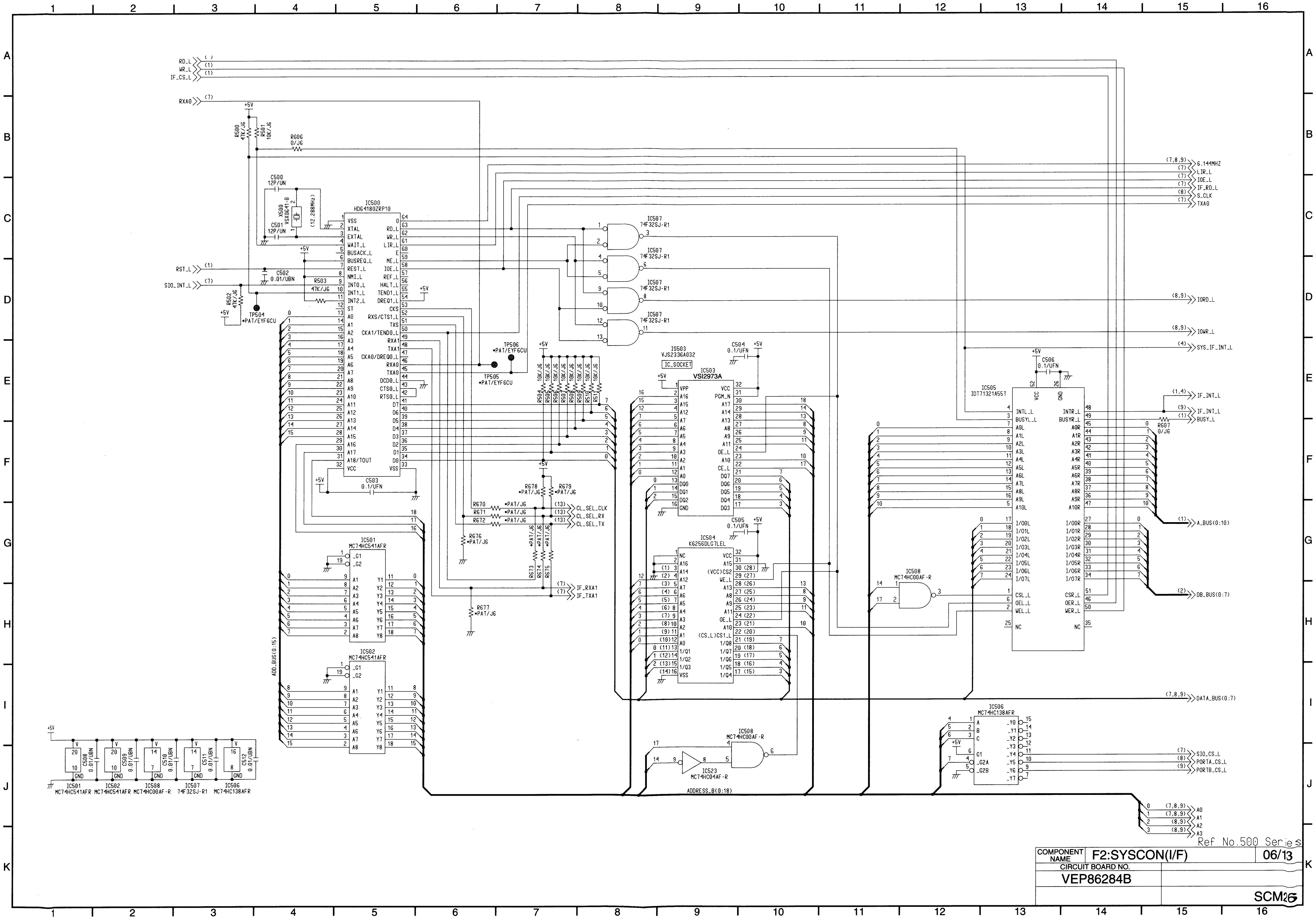
COMPONENT NAME	F2:SYSCON(MAIN)	04/13
CIRCUIT BOARD NO.		
VEP86284B		
		SCM24

KR6Q88(4/13)


RESET_L
S_BRAKE_OFF_H
S_BRAKE_ON_H
T_BRAKE_OFF_H
T_BRAKE_ON_H
PINCH_ON_H
PINCH_OFF_H
M_STOPPER_OFF_H
M_STOPPER_ON_H
SOL_SF
SOL_LOW_H
BACKUP
S_BRAKE_ON
S_BRAKE_OFF
M_STOPPER_OFF
M_STOPPER_ON
T_BRAKE_ON
T_BRAKE_OFF
PINCH_ON
PINCH_OFF
+12V_SOL
IC30 NJM2904M-T1
IC31 MC14538BF-R
IC32 MC14538BF-R
IC38 MC14538BF-R
IC39 NJM2904M-T1
Q4 2SB936AQPDSX
Q5 2SD601A-QRTX
Q38 2SD601A-QRTX
Q39 2SB936AQPDSX
*PAT=PATTERN ONLY

	B75,B76	K8
C98	ECUV1C106KBP	ECUV1E105KBP
R381	68K/J6	12K/J6

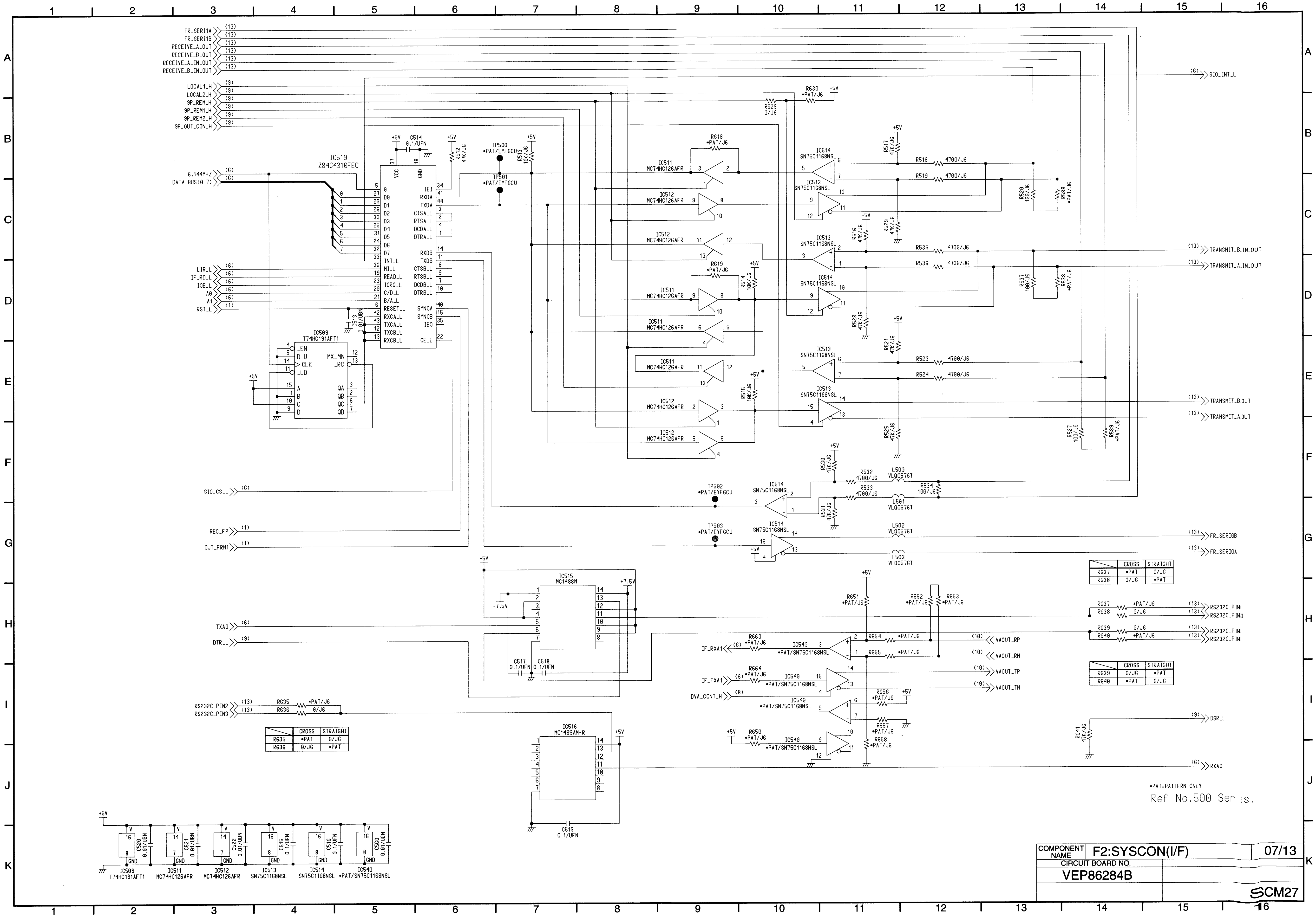
COMPONENT NAME	F2:SYSCON(MAIN)	05/13
CIRCUIT BOARD NO.		
VEP86284B		
		S CM25


IC500
HD64180ZRP10
IC501
MC74HC541AFR
IC502
MC74HC541AFR
IC503
VSI2973A
IS503
VJS2336A032
IC_SOCKET
IC504
K6256DLG7LEL
IC505
IDT71321A55T
IC506
MC74HC138AFR
IC507
74F32SJ-R1
IC508
MC74HC00AF-R
IC523
MC74HC04AF-R
X500
VSX0641-B
(12.288MHz)
TP504
TP505
TP506
*PAT/EYF6CU
RD_L
WR_L
IF_CS_L
RXA0
RST_L
SIO_INT_L
6.144MHZ
LIR_L
IOE_L
IF_RD_L
S_CLK
TXA0
IORD_L
IOWR_L
SYS_IF_INT_L
IF_INT_L
BUSY_L
A_BUS(0:10)
DB_BUS(0:7)
DATA_BUS(0:7)
SIO_CS_L
PORTA_CS_L
PORTB_CS_L
A0
A1
A2
A3
CL_SEL_CLK
CL_SEL_RX
CL_SEL_TX
IF_RXA1
IF_TXA1
ADD_BUS(0:15)
ADDRESS_B(0:18)
+5V

Ref No.500 Series

COMPONENT NAME	F2:SYSCON(I/F)	06/13
CIRCUIT BOARD NO.		
VEP86284B		
		SCM26

KR6Q88(6/13)


FR_SERI1A (13)
FR_SERI1B (13)
RECEIVE_A_OUT (13)
RECEIVE_B_OUT (13)
RECEIVE_A_IN_OUT (13)
RECEIVE_B_IN_OUT (13)
LOCAL1_H (9)
LOCAL2_H (9)
9P_REM_H (9)
9P_REM1_H (9)
9P_REM2_H (9)
9P_OUT_CON_H (9)
6.144MHZ (6)
DATA_BUS(0:7) (6)
LIR_L (6)
IF_RD_L (6)
IOE_L (6)
A0 (6)
A1 (6)
RST_L (1)
IC510
Z84C4310FEC
IC509
T74HC191AFT1
C513 0.01/UBN
C514 0.1/UFN
R512 47K/J6
TP500 *PAT/EYF6CU
TP501 *PAT/EYF6CU
R513 10K/J6
IC511 MC74HC126AFR
IC512 MC74HC126AFR
IC513 SN75C1168NSL
IC514 SN75C1168NSL
R618 *PAT/J6
R619 *PAT/J6
R514 10K/J6
R515 10K/J6
R629 0/J6
R630 *PAT/J6
R517 47K/J6
R518 4700/J6
R519 4700/J6
R520 100/J6
R588 *PAT/J6
R529 47K/J6
R516 47K/J6
R535 4700/J6
R536 4700/J6
R537 100/J6
R538 *PAT/J6
R528 47K/J6
R521 47K/J6
R523 4700/J6
R524 4700/J6
R525 47K/J6
R527 100/J6
R589 *PAT/J6
(6) SIO_INT_L
(13) TRANSMIT_B_IN_OUT
(13) TRANSMIT_A_IN_OUT
(13) TRANSMIT_B_OUT
(13) TRANSMIT_A_OUT
SIO_CS_L (6)
REC_FP (1)
OUT_FRM1 (1)
TP502 *PAT/EYF6CU
TP503 *PAT/EYF6CU
R530 47K/J6
R531 47K/J6
R532 4700/J6
R533 4700/J6
R534 100/J6
L500 VLQ0576T
L501 VLQ0576T
L502 VLQ0576T
L503 VLQ0576T
(13) FR_SERIOB
(13) FR_SERIOA
IC515 MC1488M
-7.5V
+7.5V
C517 0.1/UFN
C518 0.1/UFN
TXA0 (6)
DTR_L (9)
R651 *PAT/J6
R652 *PAT/J6
R653 *PAT/J6
R654 *PAT/J6
R655 *PAT/J6
R656 *PAT/J6
R657 *PAT/J6
R658 *PAT/J6
R650 *PAT/J6
R663 *PAT/J6
R664 *PAT/J6
IC540 *PAT/SN75C1168NSL
IF_RXA1 (6)
IF_TXA1 (6)
DVA_CONT_H (8)
(10) VAOUT_RP
(10) VAOUT_RM
(10) VAOUT_TP
(10) VAOUT_TM
R637 *PAT/J6
R638 0/J6
R639 0/J6
R640 *PAT/J6
(13) RS232C_PIN
(9) DSR_L
R641 47K/J6
(6) RXA0
RS232C_PIN2 (13)
RS232C_PIN3 (13)
R635 *PAT/J6
R636 0/J6
IC516 MC1489AM-R
C519 0.1/UFN
+5V
IC509 T74HC191AFT1
IC511 MC74HC126AFR
IC512 MC74HC126AFR
IC513 SN75C1168NSL
IC514 SN75C1168NSL
IC540 *PAT/SN75C1168NSL
C520 0.01/UBN
C521 0.01/UBN
C522 0.01/UBN
C515 0.1/UFN
C516 0.1/UFN
C560 0.01/UBN
*PAT=PATTERN ONLY
Ref No.500 Series.

	CROSS	STRAIGHT
R637	*PAT	0/J6
R638	0/J6	*PAT

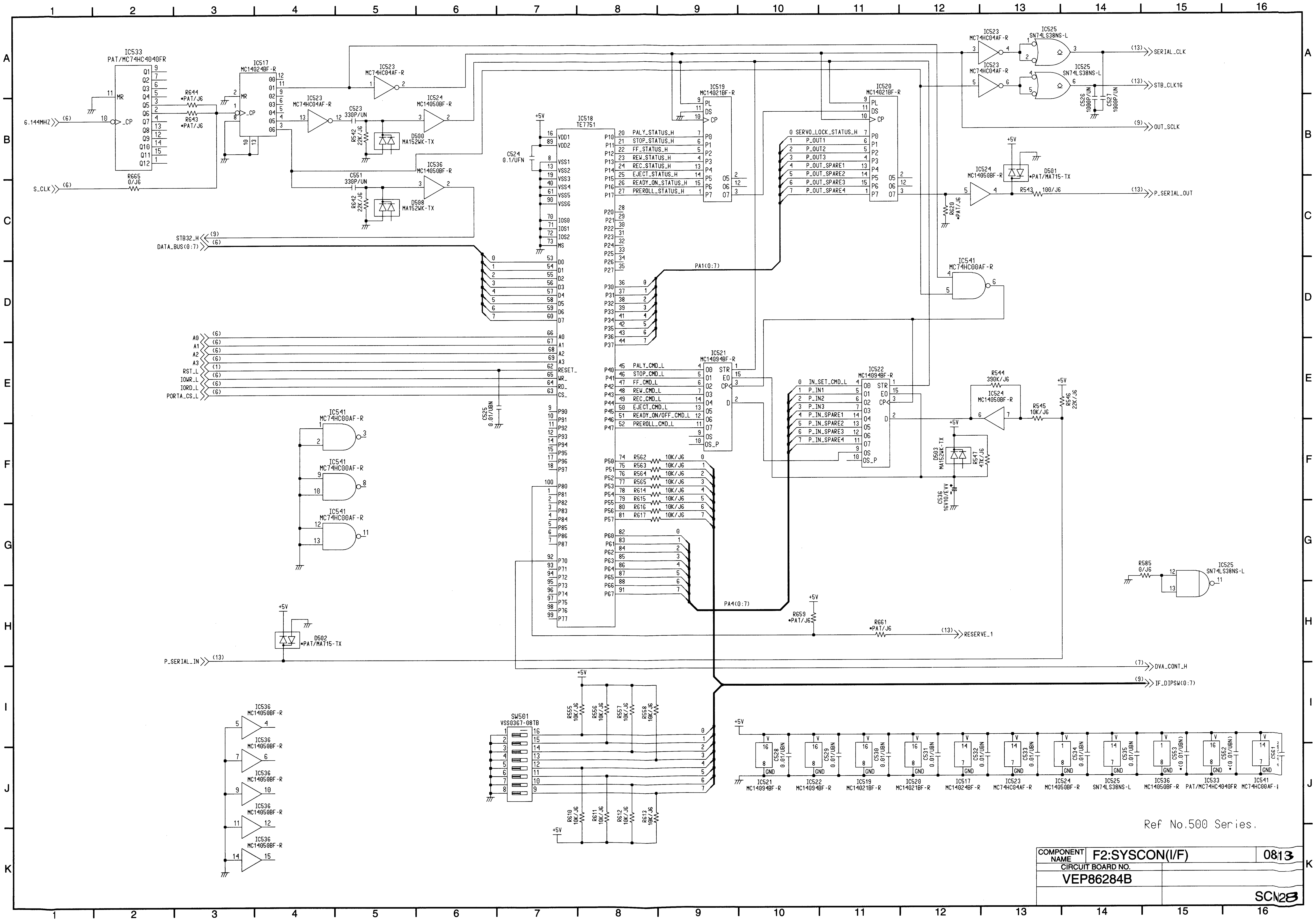
	CROSS	STRAIGHT
R639	0/J6	*PAT
R640	*PAT	0/J6

	CROSS	STRAIGHT
R635	*PAT	0/J6
R636	0/J6	*PAT

COMPONENT NAME	F2:SYSCON(I/F)	07/13
CIRCUIT BOARD NO.		
VEP86284B		

SCM27

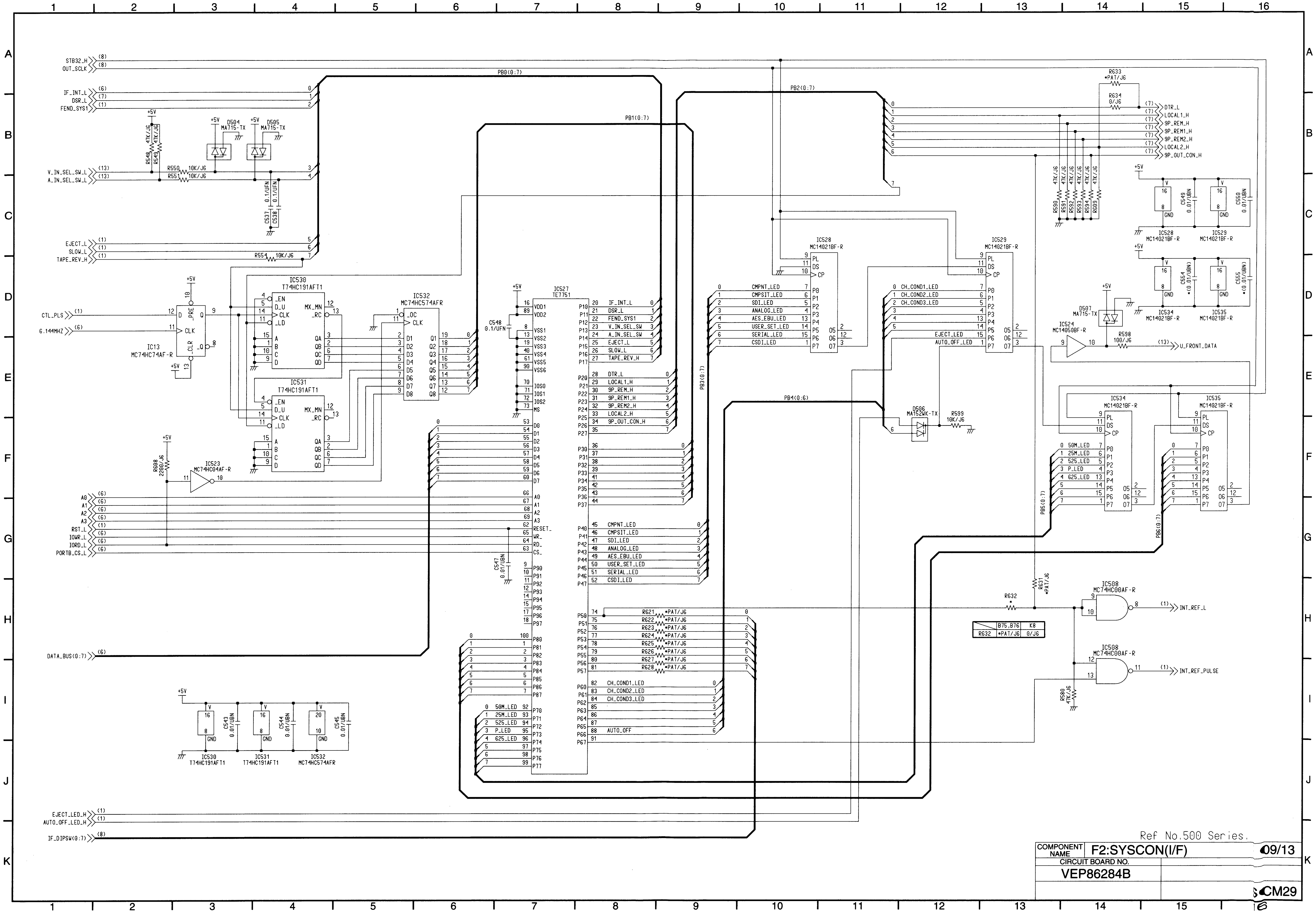
KR6Q88(7/13)


IC533 PAT/MC74HC4040FR
IC517 MC14024BF-R
IC523 MC74HC04AF-R
IC524 MC14050BF-R
IC536 MC14050BF-R
IC518 TE7751
IC519 MC14021BF-R
IC520 MC14021BF-R
IC521 MC14094BF-R
IC522 MC14094BF-R
IC525 SN74LS38NS-L
IC541 MC74HC00AF-R
SW501 VSS0367-08TB
D500 MA152WK-TX
D508 MA152WK-TX
D501 *PAT/MA715-TX
D502 *PAT/MA715-TX
D503 MA152WK-TX
6.144MHZ
S_CLK
STB32_H
DATA_BUS(0:7)
A0
A1
A2
A3
RST_L
IOWR_L
IORD_L
PORTA_CS_L
P_SERIAL_IN
SERIAL_CLK
STB_CLK16
OUT_SCLK
P_SERIAL_OUT
RESERVE_1
DVA_CONT_H
IF_DIPSW(0:7)
PA1(0:7)
PA4(0:7)
PALY_STATUS_H
STOP_STATUS_H
FF_STATUS_H
REW_STATUS_H
REC_STATUS_H
EJECT_STATUS_H
READY_ON_STATUS_H
PREROLL_STATUS_H
SERVO_LOCK_STATUS_H
P_OUT1
P_OUT2
P_OUT3
P_OUT_SPARE1
P_OUT_SPARE2
P_OUT_SPARE3
P_OUT_SPARE4
PALY_CMD_L
STOP_CMD_L
FF_CMD_L
REW_CMD_L
REC_CMD_L
EJECT_CMD_L
READY_ON/OFF_CMD_L
PREROLL_CMD_L
IN_SET_CMD_L
P_IN1
P_IN2
P_IN3
P_IN_SPARE1
P_IN_SPARE2
P_IN_SPARE3
P_IN_SPARE4
+5V

Ref No.500 Series.

COMPONENT NAME	F2:SYSCON(I/F)	0813
CIRCUIT BOARD NO.		
VEP86284B		
		SCN28

KR6Q88(8/13)

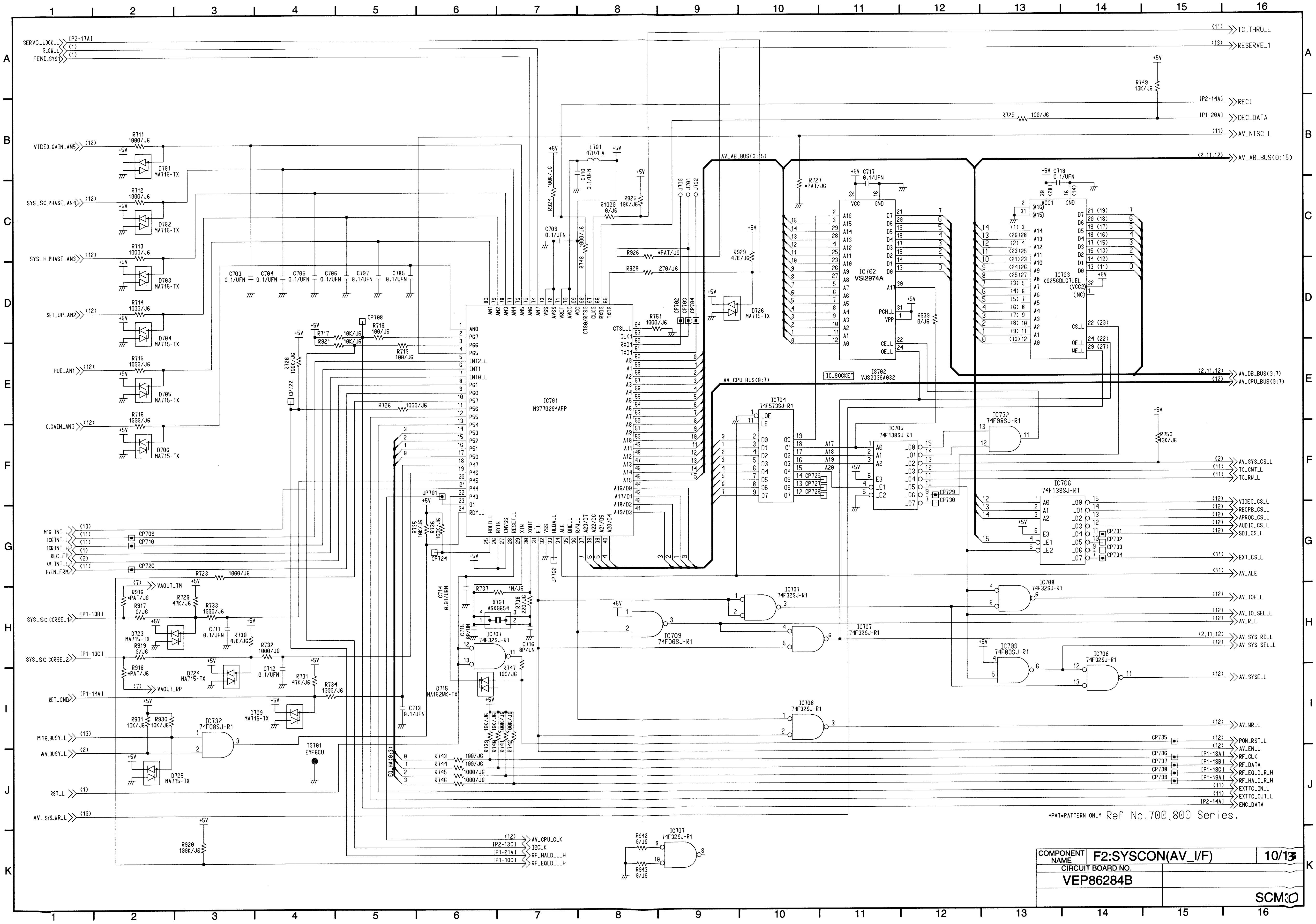

STB32_H
OUT_SCLK
IF_INT_L
DSR_L
FEND_SYS1
V_IN_SEL_SW_L
A_IN_SEL_SW_L
EJECT_L
SLOW_L
TAPE_REV_H
CTL_PLS
6.144MHZ
A0
A1
A2
A3
RST_L
IOWR_L
IORD_L
PORTB_CS_L
DATA_BUS(0:7)
EJECT_LED_H
AUTO_OFF_LED_H
IF_DIPSW(0:7)
PB0(0:7)
PB1(0:7)
PB2(0:7)
PB3(0:7)
PB4(0:6)
PB5(0:7)
PB6(0:7)
IC13
MC74HC74AF-R
IC530
T74HC191AFT1
IC531
T74HC191AFT1
IC532
MC74HC574AFR
IC523
MC74HC04AF-R
IC527
TE7751
IC528
MC14021BF-R
IC529
MC14021BF-R
IC534
MC14021BF-R
IC535
MC14021BF-R
IC524
MC14050BF-R
IC508
MC74HC00AF-R
D504
D505
MA715-TX
D506
MA152WK-TX
D507
MA715-TX
DTR_L
LOCAL1_H
SP_REM_H
SP_REM1_H
SP_REM2_H
LOCAL2_H
SP_OUT_CON_H
U_FRONT_DATA
INT_REF_L
INT_REF_PULSE
CMPNT_LED
CMPSIT_LED
SDI_LED
ANALOG_LED
AES_EBU_LED
USER_SET_LED
SERIAL_LED
CSDI_LED
CH_COND1_LED
CH_COND2_LED
CH_COND3_LED
EJECT_LED
AUTO_OFF_LED
AUTO_OFF
50M_LED
25M_LED
525_LED
P_LED
625_LED
R632
B75,B76
K8
*PAT/J6
0/J6
+5V

Ref No.500 Series.

COMPONENT NAME	F2:SYSCON(I/F)	09/13
CIRCUIT BOARD NO.		
VEP86284B		
		CM29

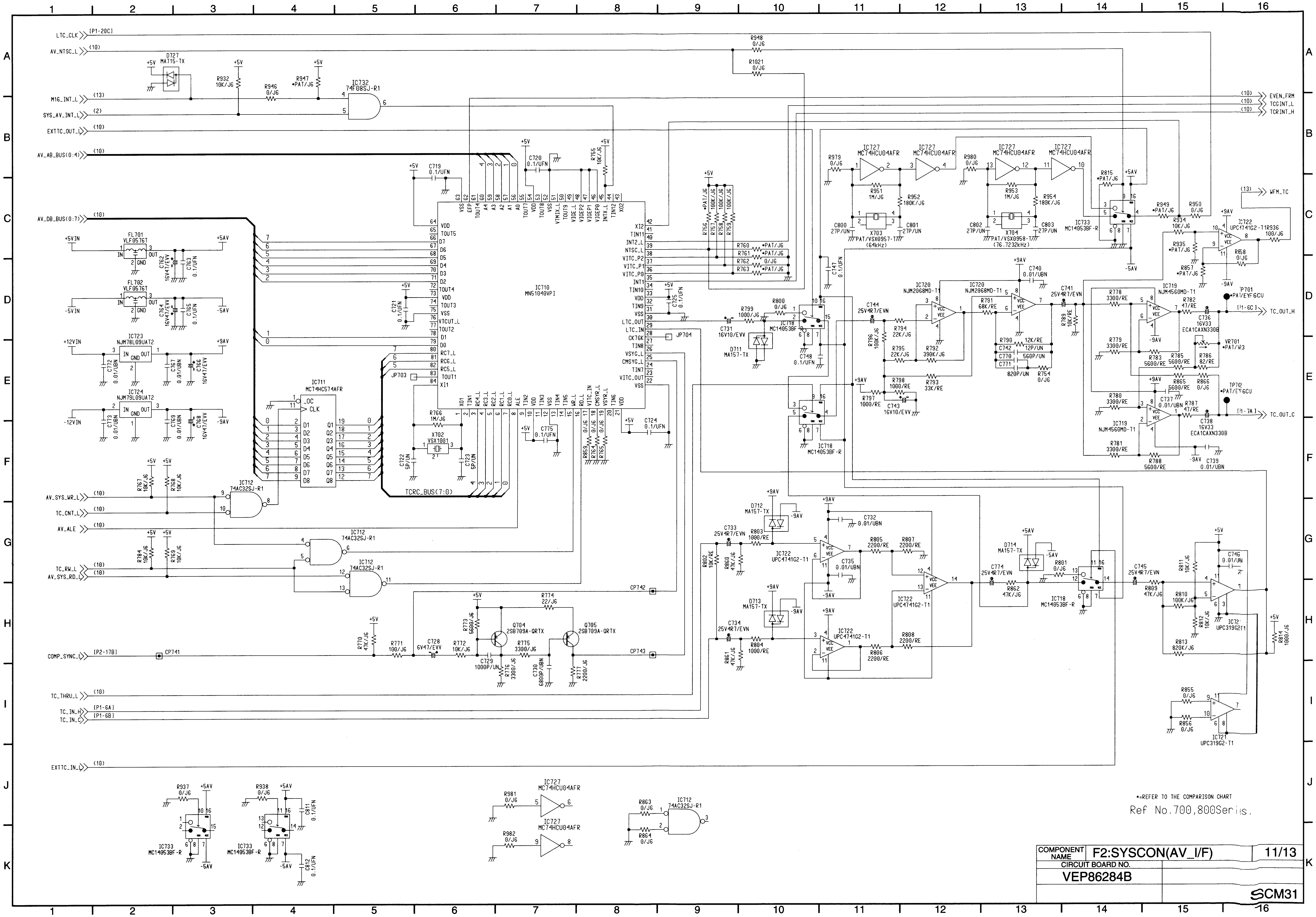
16

KR6Q88(9/13)


SERVO_LOCK_L
SLOW_L
FEND_SYS
VIDEO_GAIN_AN5
SYS_SC_PHASE_AN4
SYS_H_PHASE_AN3
SET_UP_AN2
HUE_AN1
C_GAIN_AN0
M16_INT_L
TCGINT_L
TCRINT_H
REC_FP
AV_INT_L
EVEN_FRM
SYS_SC_CORSE_1
SYS_SC_CORSE_2
RET_GND
M16_BUSY_L
AV_BUSY_L
RST_L
AV_SYS_WR_L
D701 MA715-TX
D702 MA715-TX
D703 MA715-TX
D704 MA715-TX
D705 MA715-TX
D706 MA715-TX
D723 MA715-TX
D724 MA715-TX
D725 MA715-TX
D709 MA715-TX
D715 MA152WK-TX
D726 MA715-TX
IC701 M37702S4AFP
IC702 VSI2974A
IC703 KG256DLG7LEL
IS702 VJS2336A032
IC_SOCKET
IC704 74F573SJ-R1
IC705 74F138SJ-R1
IC706 74F138SJ-R1
IC707 74F32SJ-R1
IC708 74F32SJ-R1
IC709 74F08SJ-R1
IC732 74F08SJ-R1
X701 VSX0654
L701 47U/LA
TC701 EYF6CU
VAOUT_TM
VAOUT_RP
AV_AB_BUS(0:15)
AV_CPU_BUS(0:7)
EQ_HA(0:3)
TC_THRU_L
RESERVE_1
RECI
DEC_DATA
AV_NTSC_L
AV_DB_BUS(0:7)
AV_SYS_CS_L
TC_CNT_L
TC_RW_L
VIDEO_CS_L
RECPB_CS_L
APROC_CS_L
AUDIO_CS_L
SDI_CS_L
EXT_CS_L
AV_ALE
AV_IOE_L
AV_IO_SEL_L
AV_R_L
AV_SYS_RD_L
AV_SYS_SEL_L
AV_SYSE_L
AV_WR_L
PON_RST_L
AV_EN_L
RF_CLK
RF_DATA
RF_EQLD_R_H
RF_HALD_R_H
EXTTC_IN_L
EXTTC_OUT_L
ENC_DATA
AV_CPU_CLK
I2CLK
RF_HALD_L_H
RF_EQLD_L_H
*PAT=PATTERN ONLY
Ref No.700,800 Series.

COMPONENT NAME	F2:SYSCON(AV_I/F)	10/13
CIRCUIT BOARD NO.		
VEP86284B		
		SCM30

KR6Q88(10/13)

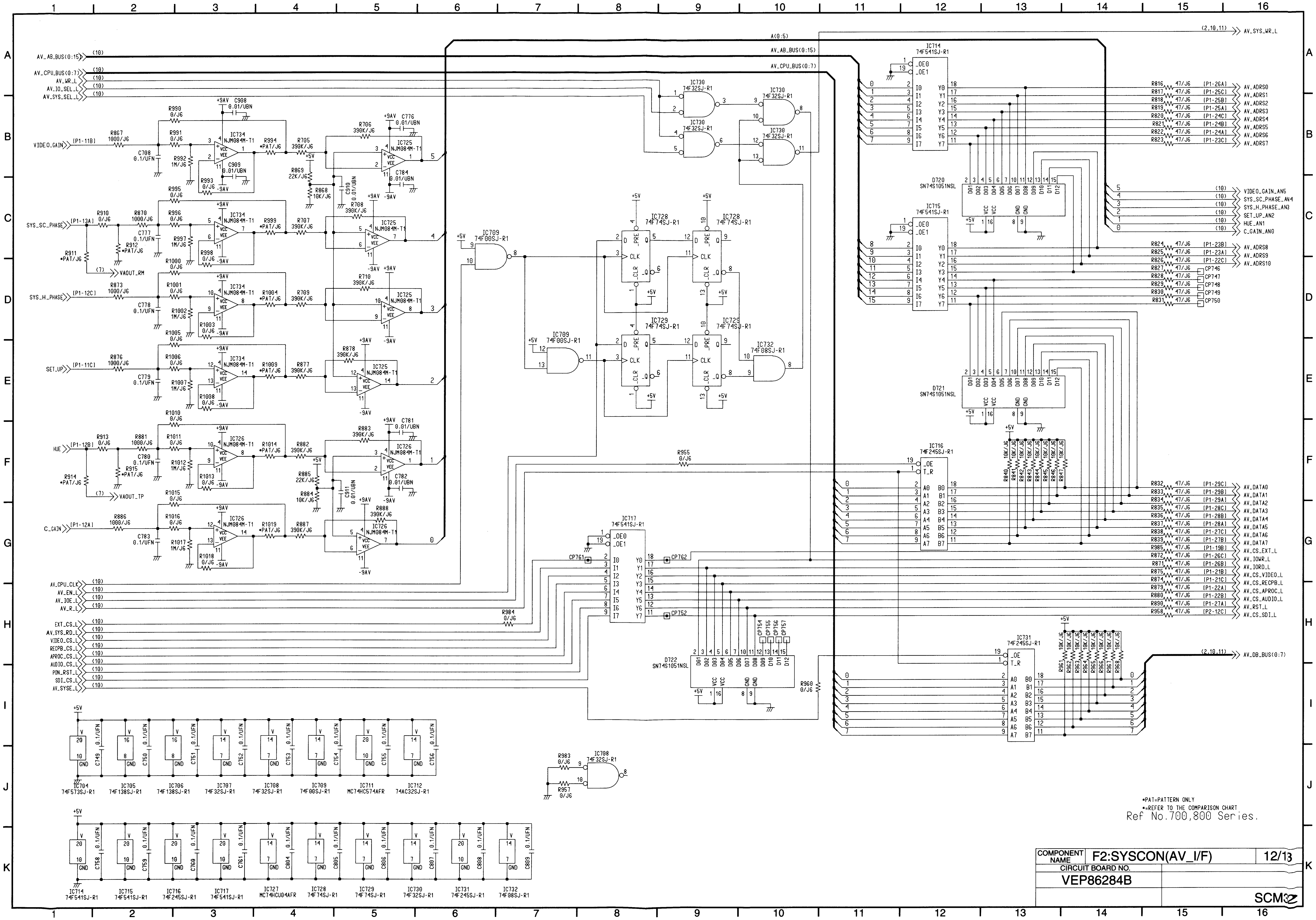

LTC_CLK
AV_NTSC_L
M16_INT_L
SYS_AV_INT_L
EXTTC_OUT_L
AV_AB_BUS(0:4)
AV_DB_BUS(0:7)
AV_SYS_WR_L
TC_CNT_L
AV_ALE
TC_RW_L
AV_SYS_RD_L
COMP_SYNC_L
TC_THRU_L
TC_IN_H
TC_IN_C
EXTTC_IN_L
EVEN_FRM
TCGINT_L
TCRINT_H
WFM_TC
TC_OUT_H
TC_OUT_C
TCRC_BUS(7:0)
IC710 MN5104ØVPI
IC711 MC74HC574AFR
IC712 74AC32SJ-R1
IC732 74F08SJ-R1
IC727 MC74HCU04AFR
IC733 MC14053BF-R
IC718 MC14053BF-R
IC720 NJM2068MD-T1
IC719 NJM4560MD-T1
IC722 UPC4741G2-T1
IC721 UPC319G2-T1
IC723 NJM78L09UAT2
IC724 NJM79L09UAT2
FL701 VLF0576T
FL702 VLF0576T
X702 VSX1001
X703 PAT/VSX0957-T7 (64kHz)
X704 PAT/VSX0958-T7 (76.7232kHz)
Q704 2SB709A-QRTX
Q705 2SB709A-QRTX
D727 MA715-TX
D711 MA157-TX
D712 MA157-TX
D713 MA157-TX
D714 MA157-TX
TP701 PAT/EYF6CU
TP702 PAT/EYF6CU
VR701 PAT/W3
JP703
JP704
CP741
CP742
CP743
+5V
-5AV
+5AV
+9AV
-9AV
+5VIN
-5VIN
+12VIN
-12VIN

*=REFER TO THE COMPARISON CHART

Ref No.700,800Series.

COMPONENT NAME	F2:SYSCON(AV_I/F)	11/13
CIRCUIT BOARD NO.		
VEP86284B		

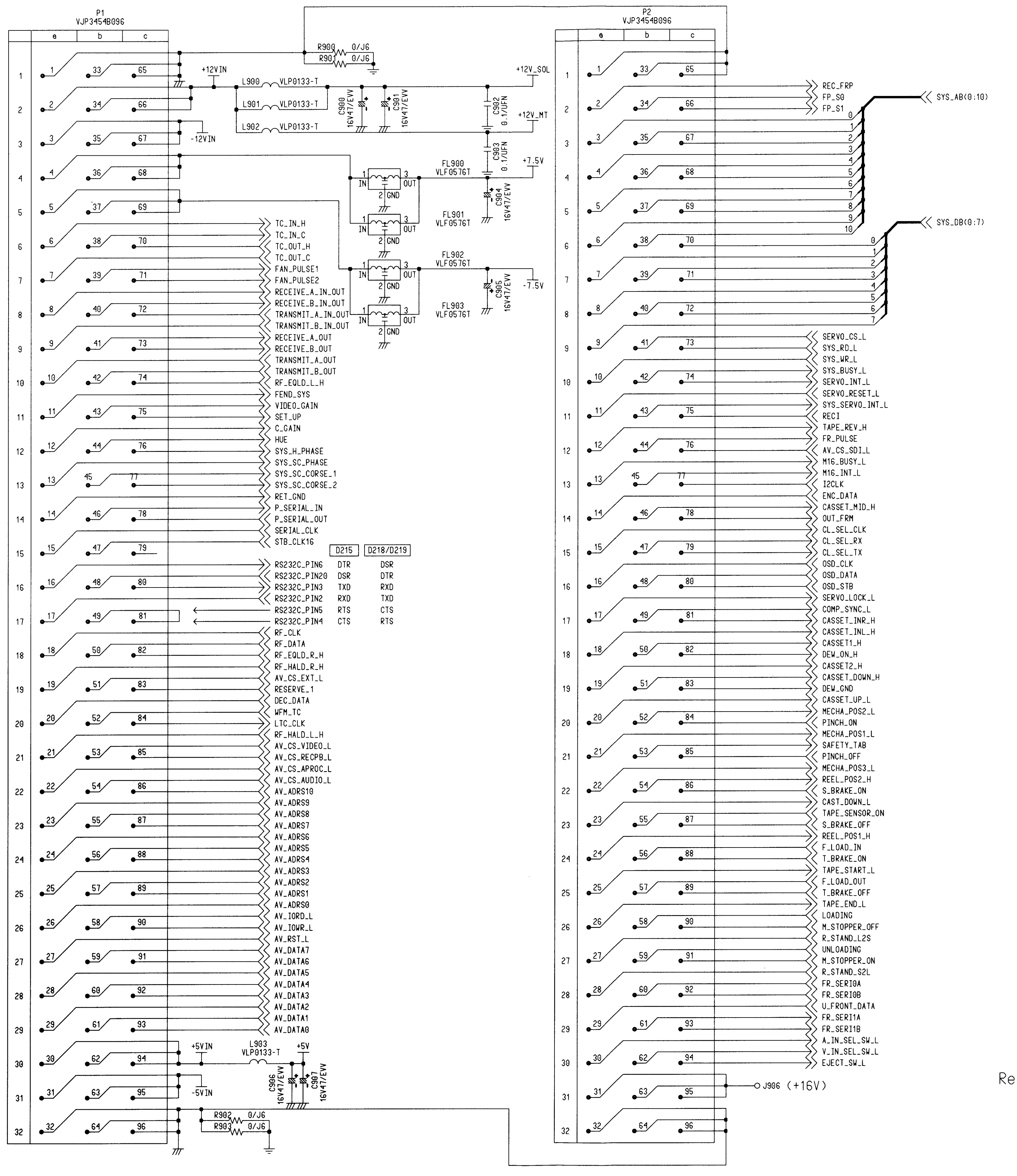
SCM31


AV_AB_BUS(0:15)
AV_CPU_BUS(0:7)
AV_WR_L
AV_IO_SEL_L
AV_SYS_SEL_L
VIDEO_GAIN
SYS_SC_PHASE
SYS_H_PHASE
SET_UP
HUE
C_GAIN
VAOUT_RM
VAOUT_TP
AV_CPU_CLK
AV_EN_L
AV_IOE_L
AV_R_L
EXT_CS_L
AV_SYS_RD_L
VIDEO_CS_L
RECPB_CS_L
APROC_CS_L
AUDIO_CS_L
PON_RST_L
SDI_CS_L
AV_SYSE_L
AV_SYS_WR_L
AV_ADRS0
AV_ADRS1
AV_ADRS2
AV_ADRS3
AV_ADRS4
AV_ADRS5
AV_ADRS6
AV_ADRS7
VIDEO_GAIN_AN5
SYS_SC_PHASE_AN4
SYS_H_PHASE_AN3
SET_UP_AN2
HUE_AN1
C_GAIN_AN0
AV_ADRS8
AV_ADRS9
AV_ADRS10
AV_DATA0
AV_DATA1
AV_DATA2
AV_DATA3
AV_DATA4
AV_DATA5
AV_DATA6
AV_DATA7
AV_CS_EXT_L
AV_IOWR_L
AV_IORD_L
AV_CS_VIDEO_L
AV_CS_RECPB_L
AV_CS_APROC_L
AV_CS_AUDIO_L
AV_RST_L
AV_CS_SDI_L
AV_DB_BUS(0:7)
IC714 74F541SJ-R1
IC715 74F541SJ-R1
IC716 74F245SJ-R1
IC717 74F541SJ-R1
IC728 74F74SJ-R1
IC729 74F74SJ-R1
IC730 74F32SJ-R1
IC731 74F245SJ-R1
IC732 74F08SJ-R1
IC709 74F00SJ-R1
IC708 74F32SJ-R1
IC725 NJM084M-T1
IC726 NJM084M-T1
IC734 NJM084M-T1
D720 SN74S1051NSL
D721 SN74S1051NSL
D722 SN74S1051NSL
IC704 74F573SJ-R1
IC705 74F138SJ-R1
IC706 74F138SJ-R1
IC707 74F32SJ-R1
IC711 MC74HC574AFR
IC712 74AC32SJ-R1
IC727 MC74HCU04AFR

*PAT=PATTERN ONLY
**REFER TO THE COMPARISON CHART
Ref No.700,800 Series.

COMPONENT NAME	F2:SYSCON(AV_I/F)	12/13
CIRCUIT BOARD NO.		
VEP86284B		
		SCM

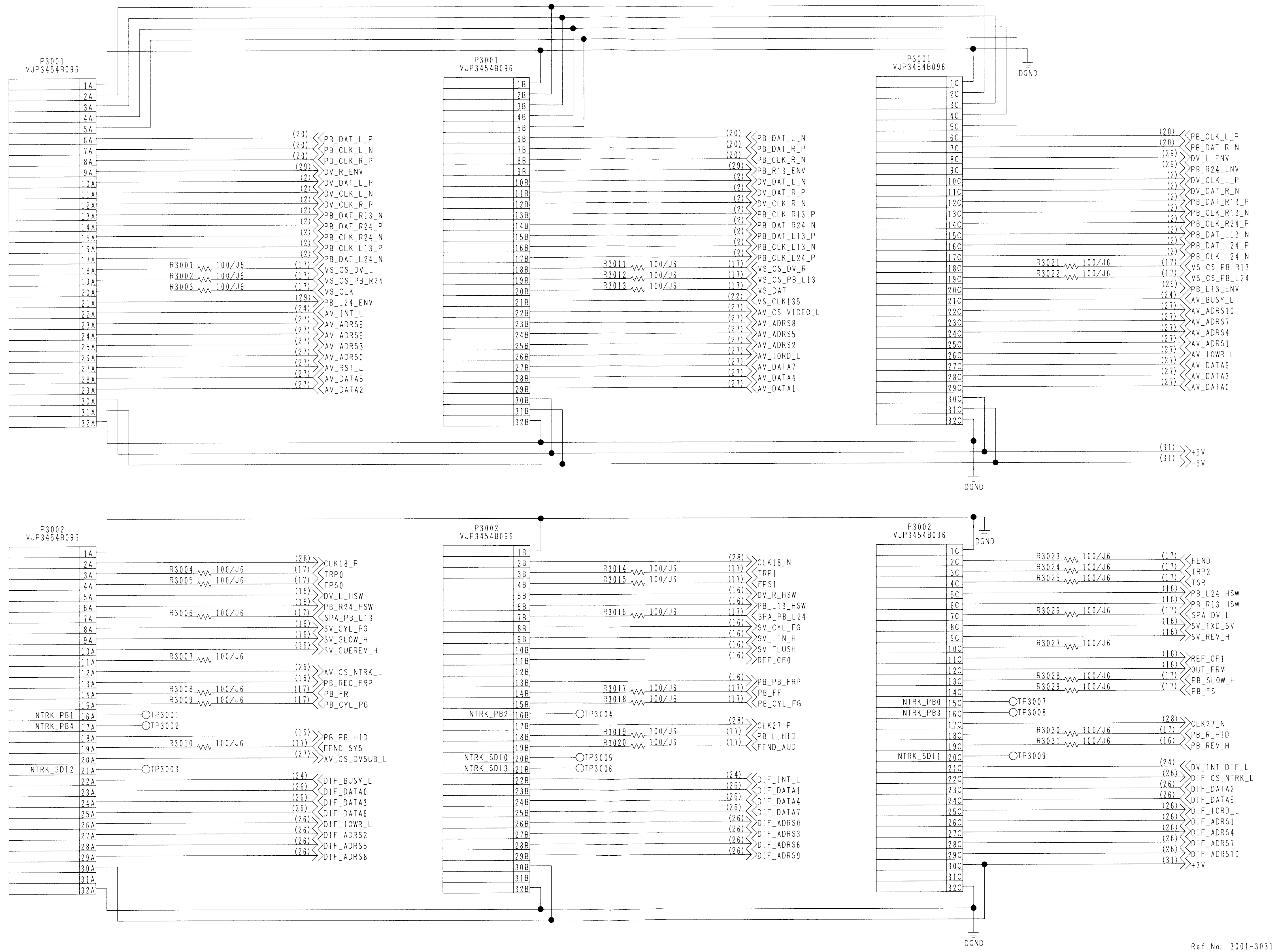
KR6Q88(12/13)


P1
VJP3454B096
a
b
c
P2
VJP3454B096
R900 0/J6
R901 0/J6
+12VIN
L900 VLP0133-T
L901 VLP0133-T
L902 VLP0133-T
C900 16V47/EVV
C901 16V47/EVV
C902 0.1/UFN
C903 0.1/UFN
C904 16V47/EVV
C905 16V47/EVV
+12V_SOL
+12V_MT
+7.5V
-7.5V
-12VIN
FL900 VLF0576T
FL901 VLF0576T
FL902 VLF0576T
FL903 VLF0576T
IN
OUT
GND
TC_IN_H
TC_IN_C
TC_OUT_H
TC_OUT_C
FAN_PULSE1
FAN_PULSE2
RECEIVE_A_IN_OUT
RECEIVE_B_IN_OUT
TRANSMIT_A_IN_OUT
TRANSMIT_B_IN_OUT
RECEIVE_A_OUT
RECEIVE_B_OUT
TRANSMIT_A_OUT
TRANSMIT_B_OUT
RF_EQLD_L_H
FEND_SYS
VIDEO_GAIN
SET_UP
C_GAIN
HUE
SYS_H_PHASE
SYS_SC_PHASE
SYS_SC_CORSE_1
SYS_SC_CORSE_2
RET_GND
P_SERIAL_IN
P_SERIAL_OUT
SERIAL_CLK
STB_CLK16
D215
D218/D219
RS232C_PIN6 DTR DSR
RS232C_PIN20 DSR DTR
RS232C_PIN3 TXD RXD
RS232C_PIN2 RXD TXD
RS232C_PIN5 RTS CTS
RS232C_PIN4 CTS RTS
RF_CLK
RF_DATA
RF_EQLD_R_H
RF_HALD_R_H
AV_CS_EXT_L
RESERVE_1
DEC_DATA
WFM_TC
LTC_CLK
RF_HALD_L_H
AV_CS_VIDEO_L
AV_CS_RECPB_L
AV_CS_APROC_L
AV_CS_AUDIO_L
AV_ADRS10
AV_ADRS9
AV_ADRS8
AV_ADRS7
AV_ADRS6
AV_ADRS5
AV_ADRS4
AV_ADRS3
AV_ADRS2
AV_ADRS1
AV_ADRS0
AV_IORD_L
AV_IOWR_L
AV_RST_L
AV_DATA7
AV_DATA6
AV_DATA5
AV_DATA4
AV_DATA3
AV_DATA2
AV_DATA1
AV_DATA0
+5VIN
L903 VLP0133-T
+5V
C906 16V47/EVV
C907 16V47/EVV
-5VIN
R902 0/J6
R903 0/J6
REC_FRP
FP_S0
FP_S1
SYS_AB(0:10)
SYS_DB(0:7)
SERVO_CS_L
SYS_RD_L
SYS_WR_L
SYS_BUSY_L
SERVO_INT_L
SERVO_RESET_L
SYS_SERVO_INT_L
RECI
TAPE_REV_H
FR_PULSE
AV_CS_SDI_L
M16_BUSY_L
M16_INT_L
I2CLK
ENC_DATA
CASSET_MID_H
OUT_FRM
CL_SEL_CLK
CL_SEL_RX
CL_SEL_TX
OSD_CLK
OSD_DATA
OSD_STB
SERVO_LOCK_L
COMP_SYNC_L
CASSET_INR_H
CASSET_INL_H
CASSET1_H
DEW_ON_H
CASSET2_H
CASSET_DOWN_H
DEW_GND
CASSET_UP_L
MECHA_POS2_L
PINCH_ON
MECHA_POS1_L
SAFETY_TAB
PINCH_OFF
MECHA_POS3_L
REEL_POS2_H
S_BRAKE_ON
CAST_DOWN_L
TAPE_SENSOR_ON
S_BRAKE_OFF
REEL_POS1_H
F_LOAD_IN
T_BRAKE_ON
TAPE_START_L
F_LOAD_OUT
T_BRAKE_OFF
TAPE_END_L
LOADING
M_STOPPER_OFF
R_STAND_L2S
UNLOADING
M_STOPPER_ON
R_STAND_S2L
FR_SERI0A
FR_SERI0B
U_FRONT_DATA
FR_SERI1A
FR_SERI1B
A_IN_SEL_SW_L
V_IN_SEL_SW_L
EJECT_SW_L
J906 (+16V)

Ref No.900 Series.

COMPONENT NAME	F2:SYSCON	13/13
CIRCUIT BOARD NO.		
VEP86284B		

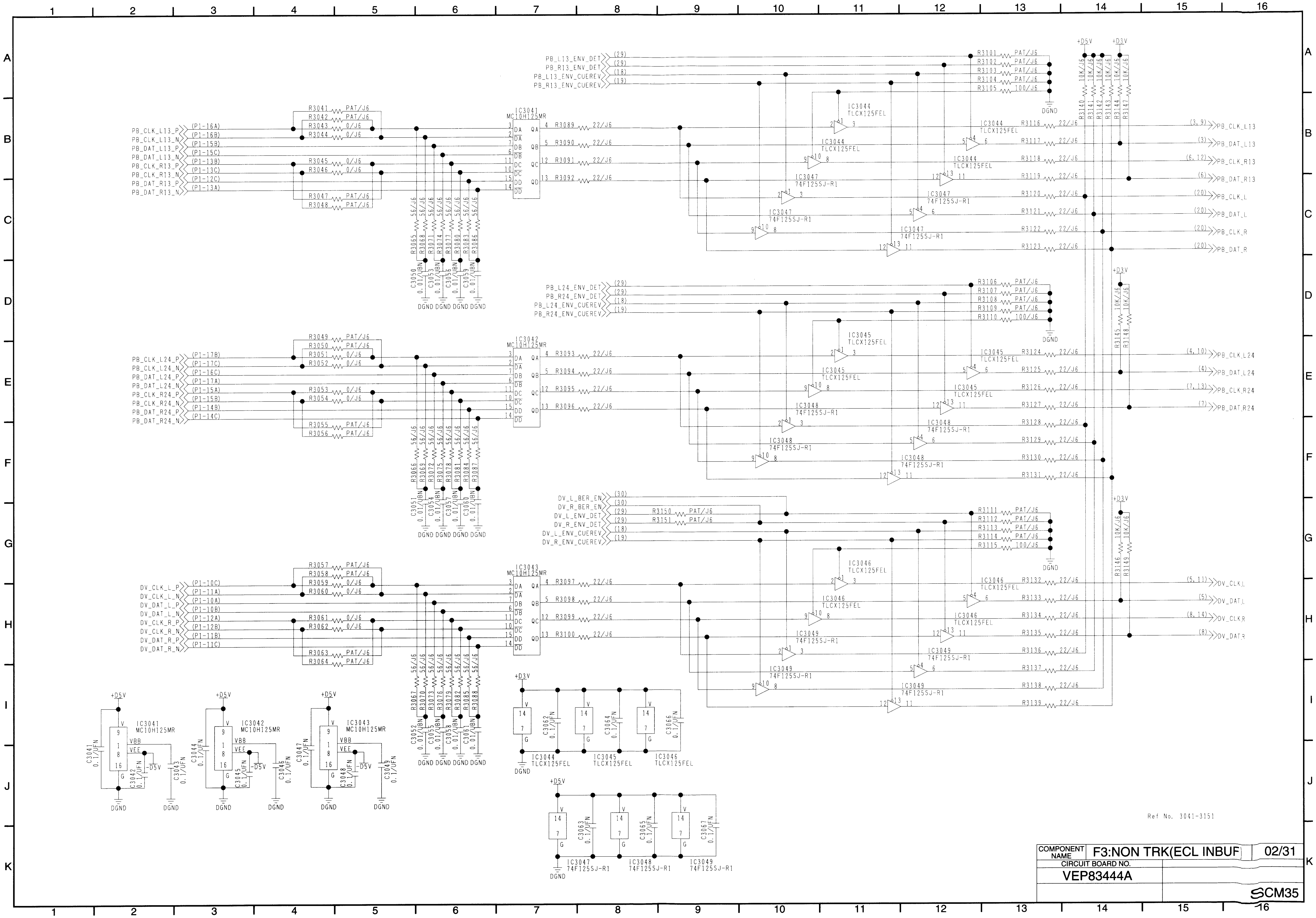
S CM33

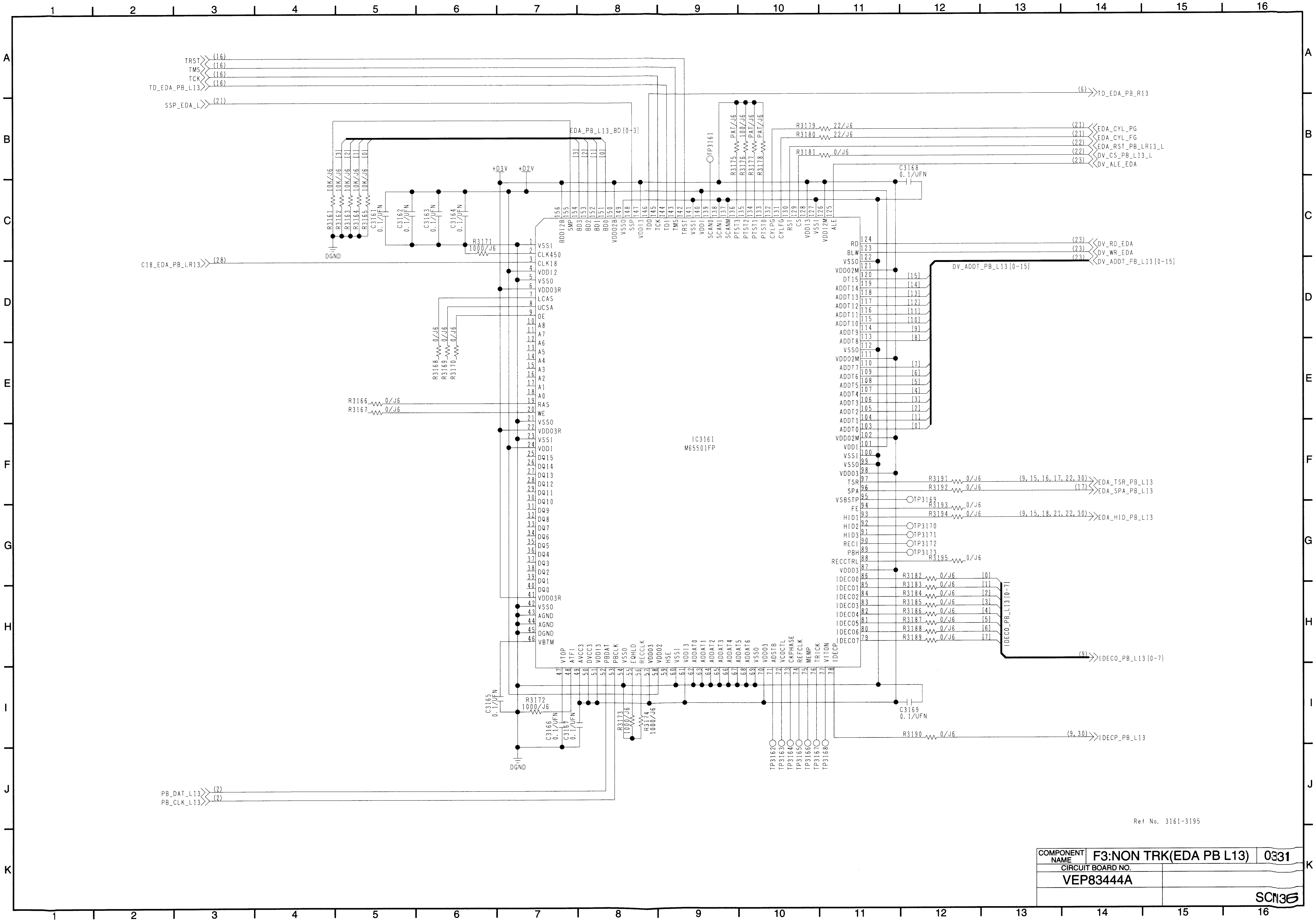

P3001
VJP3454B096
(20) PB_DAT_L_P
(20) PB_CLK_L_N
(20) PB_CLK_R_P
(29) DV_R_ENV
(2) DV_DAT_L_P
(2) DV_CLK_L_N
(2) DV_CLK_R_P
(2) PB_DAT_R13_N
(2) PB_DAT_R24_P
(2) PB_CLK_R24_N
(2) PB_CLK_L13_P
(2) PB_DAT_L24_N
R3001 100/J6 (17) VS_CS_DV_L
R3002 100/J6 (17) VS_CS_PB_R24
R3003 100/J6 (17) VS_CLK
(29) PB_L24_ENV
(24) AV_INT_L
(27) AV_ADRS9
(27) AV_ADRS6
(27) AV_ADRS3
(27) AV_ADRS0
(27) AV_RST_L
(27) AV_DATA5
(27) AV_DATA2
P3001
VJP3454B096
(20) PB_DAT_L_N
(20) PB_DAT_R_P
(20) PB_CLK_R_N
(29) PB_R13_ENV
(2) DV_DAT_L_N
(2) DV_DAT_R_P
(2) DV_CLK_R_N
(2) PB_CLK_R13_P
(2) PB_DAT_R24_N
(2) PB_DAT_L13_P
(2) PB_CLK_L13_N
(2) PB_CLK_L24_P
R3011 100/J6 (17) VS_CS_DV_R
R3012 100/J6 (17) VS_CS_PB_L13
R3013 100/J6 (17) VS_DAT
(22) VS_CLK135
(27) AV_CS_VIDEO_L
(27) AV_ADRS8
(27) AV_ADRS5
(27) AV_ADRS2
(27) AV_IORD_L
(27) AV_DATA7
(27) AV_DATA4
(27) AV_DATA1
P3001
VJP3454B096
DGND
(20) PB_CLK_L_P
(20) PB_DAT_R_N
(29) DV_L_ENV
(29) PB_R24_ENV
(2) DV_CLK_L_P
(2) DV_DAT_R_N
(2) PB_DAT_R13_P
(2) PB_CLK_R13_N
(2) PB_CLK_R24_P
(2) PB_DAT_L13_N
(2) PB_DAT_L24_P
(2) PB_CLK_L24_N
R3021 100/J6 (17) VS_CS_PB_R13
R3022 100/J6 (17) VS_CS_PB_L24
(29) PB_L13_ENV
(24) AV_BUSY_L
(27) AV_ADRS10
(27) AV_ADRS7
(27) AV_ADRS4
(27) AV_ADRS1
(27) AV_IOWR_L
(27) AV_DATA6
(27) AV_DATA3
(27) AV_DATA0
(31) +5V
(31) -5V
DGND
P3002
VJP3454B096
(28) CLK18_P
R3004 100/J6 (17) TRP0
R3005 100/J6 (17) FPS0
(16) DV_L_HSW
(16) PB_R24_HSW
R3006 100/J6 (17) SPA_PB_L13
(16) SV_CYL_PG
(16) SV_SLOW_H
(16) SV_CUEREV_H
R3007 100/J6
(26) AV_CS_NTRK_L
(16) PB_REC_FRP
R3008 100/J6 (17) PB_FR
R3009 100/J6 (17) PB_CYL_PG
NTRK_PB1 TP3001
NTRK_PB4 TP3002
R3010 100/J6 (16) PB_PB_HID
(17) FEND_SYS
(27) AV_CS_DVSUB_L
NTRK_SD12 TP3003
(24) DIF_BUSY_L
(26) DIF_DATA0
(26) DIF_DATA3
(26) DIF_DATA6
(26) DIF_IOWR_L
(26) DIF_ADRS2
(26) DIF_ADRS5
(26) DIF_ADRS8
P3002
VJP3454B096
(28) CLK18_N
R3014 100/J6 (17) TRP1
R3015 100/J6 (17) FPS1
(16) DV_R_HSW
(16) PB_L13_HSW
R3016 100/J6 (17) SPA_PB_L24
(16) SV_CYL_FG
(16) SV_LIN_H
(16) SV_FLUSH
(16) REF_CF0
(16) PB_PB_FRP
R3017 100/J6 (17) PB_FF
R3018 100/J6 (17) PB_CYL_FG
NTRK_PB2 TP3004
(28) CLK27_P
R3019 100/J6 (17) PB_L_HID
R3020 100/J6 (17) FEND_AUD
NTRK_SD10 TP3005
NTRK_SD13 TP3006
(24) DIF_INT_L
(26) DIF_DATA1
(26) DIF_DATA4
(26) DIF_DATA7
(26) DIF_ADRS0
(26) DIF_ADRS3
(26) DIF_ADRS6
(26) DIF_ADRS9
P3002
VJP3454B096
DGND
R3023 100/J6 (17) FEND
R3024 100/J6 (17) TRP2
R3025 100/J6 (17) TSR
(16) PB_L24_HSW
(16) PB_R13_HSW
R3026 100/J6 (17) SPA_DV_L
(16) SV_TXD_SV
(16) SV_REV_H
R3027 100/J6
(16) REF_CF1
(16) OUT_FRM
R3028 100/J6 (17) PB_SLOW_H
R3029 100/J6 (17) PB_FS
NTRK_PB0 TP3007
NTRK_PB3 TP3008
(28) CLK27_N
R3030 100/J6 (17) PB_R_HID
R3031 100/J6 (16) PB_REV_H
NTRK_SD11 TP3009
(24) DV_INT_DIF_L
(26) DIF_CS_NTRK_L
(26) DIF_DATA2
(26) DIF_DATA5
(26) DIF_IORD_L
(26) DIF_ADRS1
(26) DIF_ADRS4
(26) DIF_ADRS7
(26) DIF_ADRS10
(31) +3V
DGND

Ref No. 3001-3031

COMPONENT NAME	F3:NON TRK(MOTHER)	01/31
CIRCUIT BOARD NO.		
VEP83444A		
		SCM34

KR3V92(1/31)


PB_L13_ENV_DET
PB_R13_ENV_DET
PB_L13_ENV_CUEREV
PB_R13_ENV_CUEREV
PB_CLK_L13_P
PB_CLK_L13_N
PB_DAT_L13_P
PB_DAT_L13_N
PB_CLK_R13_P
PB_CLK_R13_N
PB_DAT_R13_P
PB_DAT_R13_N
IC3041
MC10H125MR
IC3044
TLCX125FEL
IC3047
74F125SJ-R1
PB_CLK_L13
PB_DAT_L13
PB_CLK_R13
PB_DAT_R13
PB_CLK_L
PB_DAT_L
PB_CLK_R
PB_DAT_R
PB_L24_ENV_DET
PB_R24_ENV_DET
PB_L24_ENV_CUEREV
PB_R24_ENV_CUEREV
PB_CLK_L24_P
PB_CLK_L24_N
PB_DAT_L24_P
PB_DAT_L24_N
PB_CLK_R24_P
PB_CLK_R24_N
PB_DAT_R24_P
PB_DAT_R24_N
IC3042
MC10H125MR
IC3045
TLCX125FEL
IC3048
74F125SJ-R1
PB_CLK_L24
PB_DAT_L24
PB_CLK_R24
PB_DAT_R24
DV_L_BER_EN
DV_R_BER_EN
DV_L_ENV_DET
DV_R_ENV_DET
DV_L_ENV_CUEREV
DV_R_ENV_CUEREV
DV_CLK_L_P
DV_CLK_L_N
DV_DAT_L_P
DV_DAT_L_N
DV_CLK_R_P
DV_CLK_R_N
DV_DAT_R_P
DV_DAT_R_N
IC3043
MC10H125MR
IC3046
TLCX125FEL
IC3049
74F125SJ-R1
DV_CLKL
DV_DATL
DV_CLKR
DV_DATR
+D5V
+D3V
DGND
COMPONENT NAME
F3:NON TRK(ECL INBUF)
02/31
CIRCUIT BOARD NO.
VEP83444A
SCM35
Ref No. 3041-3151

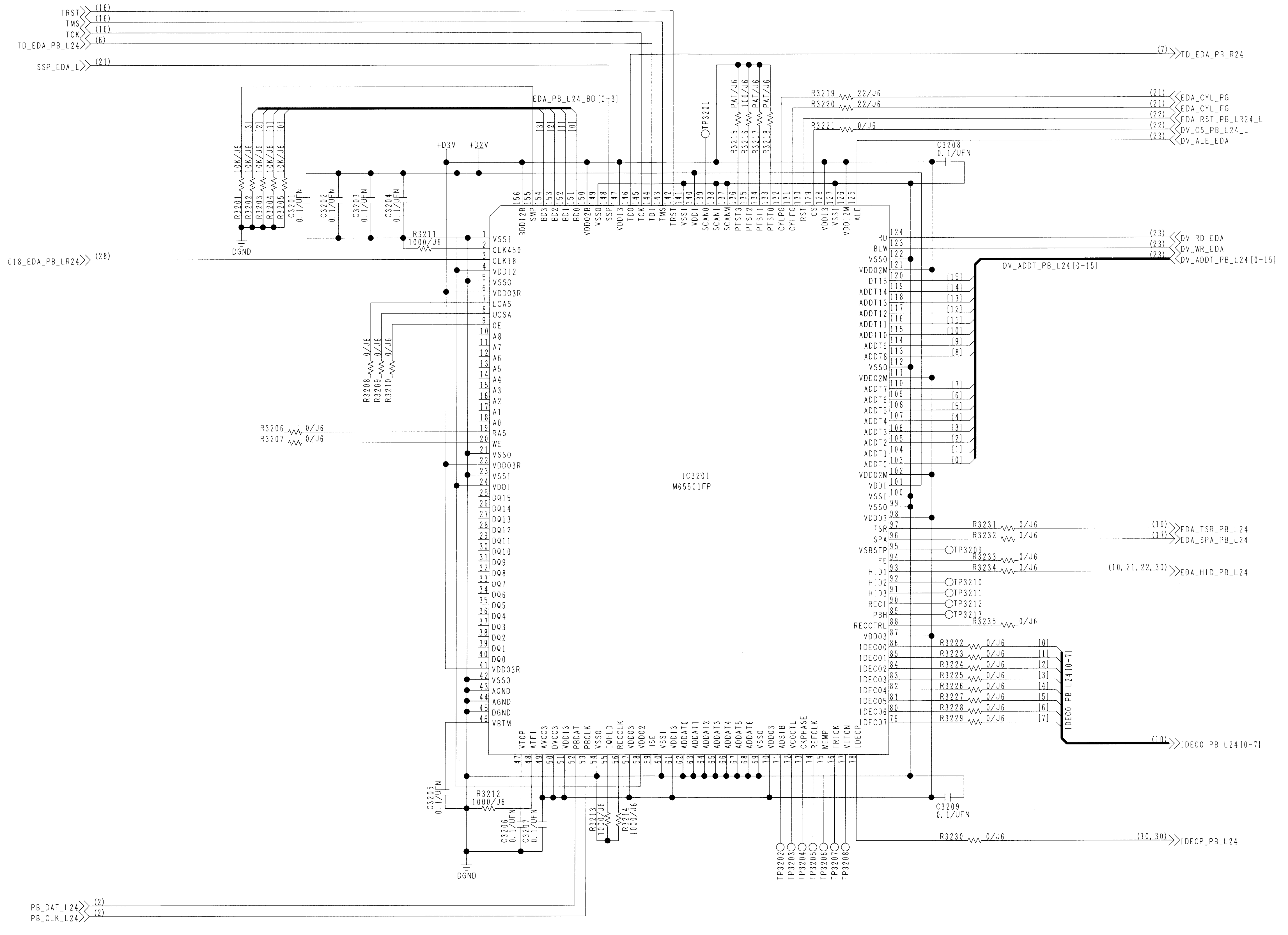

TRST
TMS
TCK
TD_EDA_PB_L13
SSP_EDA_L
C18_EDA_PB_LR13
PB_DAT_L13
PB_CLK_L13
TD_EDA_PB_R13
EDA_CYL_PG
EDA_CYL_FG
EDA_RST_PB_LR13_L
DV_CS_PB_L13_L
DV_ALE_EDA
DV_RD_EDA
DV_WR_EDA
DV_ADDT_PB_L13[0-15]
EDA_TSR_PB_L13
EDA_SPA_PB_L13
EDA_HID_PB_L13
IDECO_PB_L13[0-7]
IDECP_PB_L13
EDA_PB_L13_BD[0-3]
IC3161
M65501FP
+D3V
+D2V
DGND
R3161 10K/J6
R3162 10K/J6
R3163 10K/J6
R3164 10K/J6
R3165 10K/J6
C3161 0.1/UFN
C3162 0.1/UFN
C3163 0.1/UFN
C3164 0.1/UFN
C3165 0.1/UFN
C3166 0.1/UFN
C3167 0.1/UFN
C3168 0.1/UFN
C3169 0.1/UFN
R3171 1000/J6
R3172 1000/J6
R3173 1000/J6
R3174 1000/J6
R3168 0/J6
R3169 0/J6
R3170 0/J6
R3166 0/J6
R3167 0/J6
R3175 PAT/J6
R3176 100/J6
R3177 PAT/J6
R3178 PAT/J6
R3179 22/J6
R3180 22/J6
R3181 0/J5
R3182 0/J6
R3183 0/J6
R3184 0/J6
R3185 0/J6
R3186 0/J6
R3187 0/J6
R3188 0/J6
R3189 0/J6
R3190 0/J6
R3191 0/J6
R3192 0/J6
R3193 0/J6
R3194 0/J6
R3195 0/J6
TP3161
TP3162
TP3163
TP3164
TP3165
TP3166
TP3167
TP3168
TP3169
TP3170
TP3171
TP3172
TP3173
VSSI
CLK450
CLK18
VDDI2
VSSO
VDDO3R
LCAS
UCSA
OE
A8
A7
A6
A5
A4
A3
A2
A1
A0
RAS
WE
VDDI
DQ15
DQ14
DQ13
DQ12
DQ11
DQ10
DQ9
DQ8
DQ7
DQ6
DQ5
DQ4
DQ3
DQ2
DQ1
DQ0
AGND
DGND
VBTM
VTOP
ATFI
AVCC3
DVCC3
VDDI3
PBDAT
PBCLK
EQHLD
RECCLK
VDDO2
HSE
ADDAT0
ADDAT1
ADDAT2
ADDAT3
ADDAT4
ADDAT5
ADDAT6
VDDO3
ADSTB
VCOCTL
CKPHASE
REFCLK
MEMP
TRICK
VITON
IDECP
IDECO7
IDECO6
IDECO5
IDECO4
IDECO3
IDECO2
IDECO1
IDECO0
RECCTRL
PBH
RECI
HID3
HID2
HID1
FE
VSBSTP
SPA
TSR
VDDO2M
ADDT0
ADDT1
ADDT2
ADDT3
ADDT4
ADDT5
ADDT6
ADDT7
ADDT8
ADDT9
ADDT10
ADDT11
ADDT12
ADDT13
ADDT14
DT15
BLW
RD
ALE
VDDI2M
CS
RST
CYLFG
CYLPG
PTST0
PTST1
PTST2
PTST3
SCANM
SCAN1
SCAN0
TDI
TDO
SSP
VDDO2B
BD0
BD1
BD2
BD3
SMP
BDDI2B
(16)
(21)
(28)
(2)
(6)
(22)
(23)
(9, 15, 16, 17, 22, 30)
(17)
(9, 15, 18, 21, 22, 30)
(9)
(9, 30)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

Ref No. 3161-3195

COMPONENT NAME	F3:NON TRK(EDA PB L13)	0331
CIRCUIT BOARD NO.		
VEP83444A		

SCN36

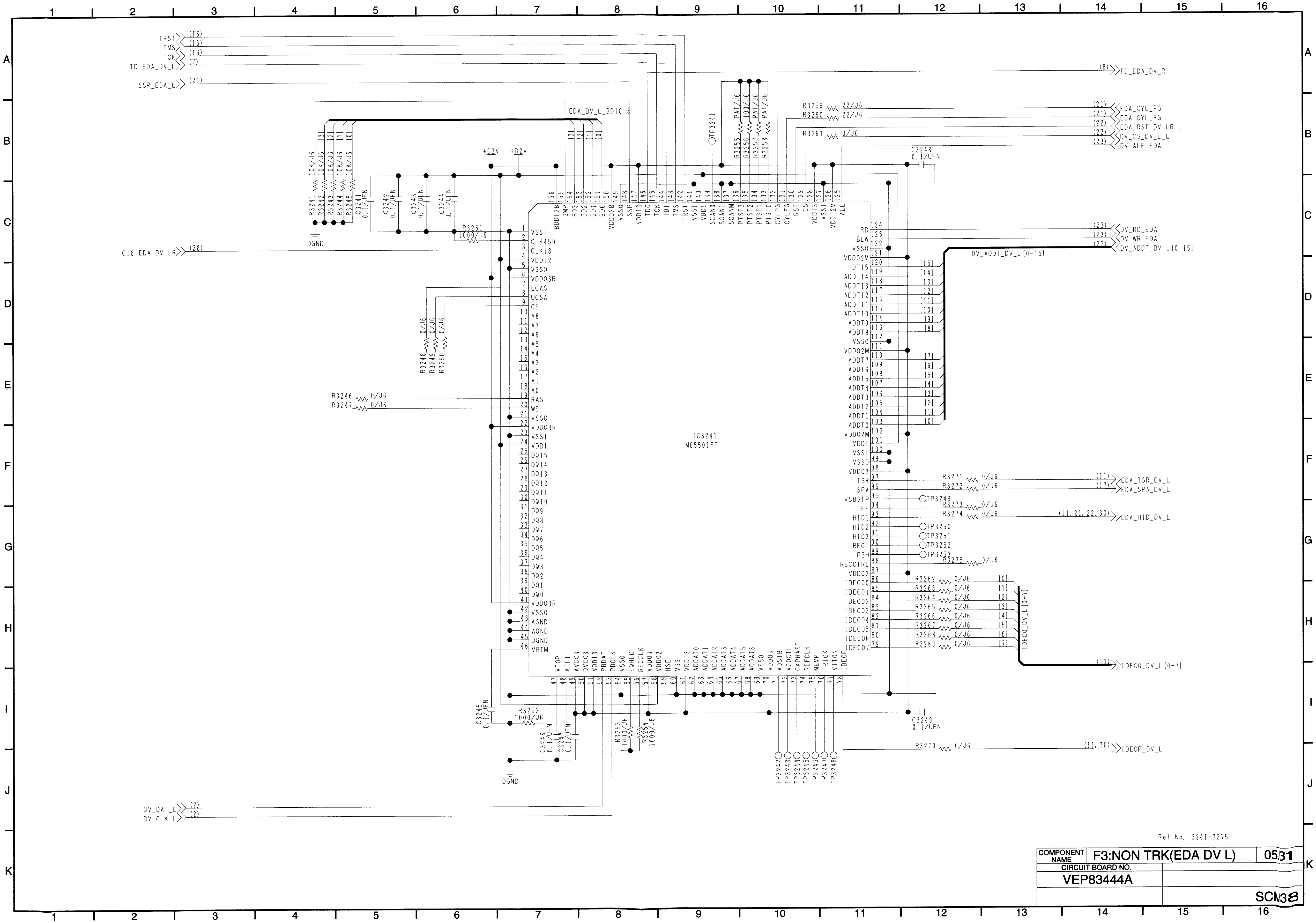
KR3V92(3/31)


TRST (16)
TMS (16)
TCK (16)
TD_EDA_PB_L24 (6)
SSP_EDA_L (21)
C18_EDA_PB_LR24 (28)
EDA_PB_L24_BD[0-3]
R3201 10K/J6
R3202 10K/J6
R3203 10K/J6
R3204 10K/J6
R3205 10K/J6
C3201 0.1/UFN
C3202 0.1/UFN
C3203 0.1/UFN
C3204 0.1/UFN
DGND
R3211 1000/J6
+D3V
+D2V
R3208 0/J6
R3209 0/J6
R3210 0/J6
R3206 0/J6
R3207 0/J6
IC3201
M65501FP
TP3201
R3215 PAT/J6
R3216 100/J6
R3217 PAT/J6
R3218 PAT/J6
R3219 22/J6
R3220 22/J6
R3221 0/J6
C3208 0.1/UFN
(7) TD_EDA_PB_R24
(21) EDA_CYL_PG
(21) EDA_CYL_FG
(22) EDA_RST_PB_LR24_L
(22) DV_CS_PB_L24_L
(23) DV_ALE_EDA
(23) DV_RD_EDA
(23) DV_WR_EDA
(23) DV_ADDT_PB_L24[0-15]
DV_ADDT_PB_L24[0-15]
R3231 0/J6
R3232 0/J6
(10) EDA_TSR_PB_L24
(17) EDA_SPA_PB_L24
TP3209
R3233 0/J6
R3234 0/J6
(10,21,22,30) EDA_HID_PB_L24
TP3210
TP3211
TP3212
TP3213
R3235 0/J6
R3222 0/J6
R3223 0/J6
R3224 0/J6
R3225 0/J6
R3226 0/J6
R3227 0/J6
R3228 0/J6
R3229 0/J6
IDECO_PB_L24[0-7]
(10) IDECO_PB_L24[0-7]
R3230 0/J6
(10,30) IDECP_PB_L24
C3209 0.1/UFN
C3205 0.1/UFN
R3212 1000/J6
C3206 0.1/UFN
C3207 0.1/UFN
R3213 1000/J6
R3214 1000/J6
TP3202
TP3203
TP3204
TP3205
TP3206
TP3207
TP3208
PB_DAT_L24 (2)
PB_CLK_L24 (2)

KR3V92(4/31)

Ref No. 3201-3235

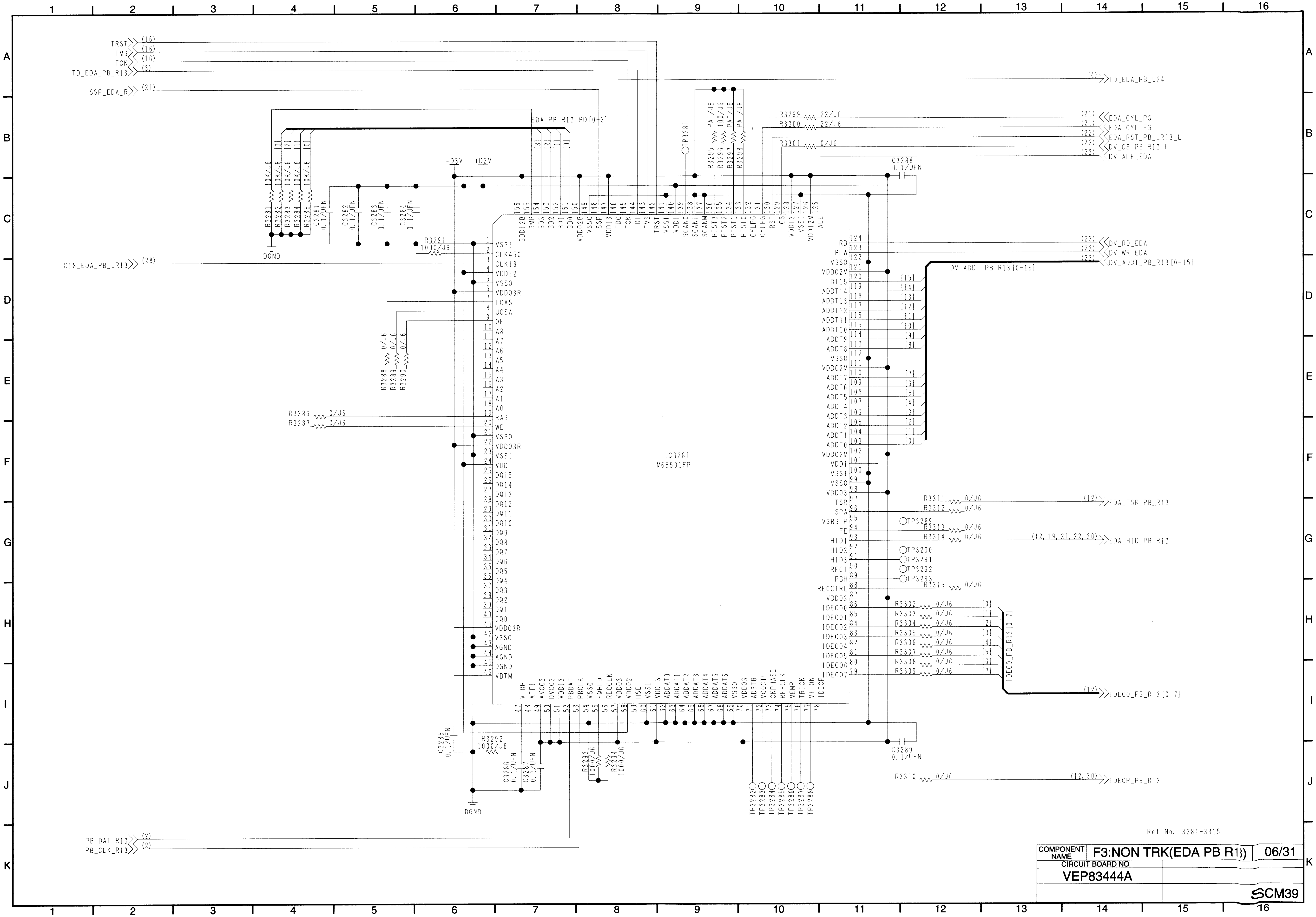
COMPONENT NAME	F3:NON TRK(EDA PB L24)	04/31
CIRCUIT BOARD NO.		
VEP83444A		
		S CM37


TRST
TMS
TCK
TD_EDA_DV_L
SSP_EDA_L
C18_EDA_DV_LR
EDA_DV_L_BD[0-3]
+D3V
+D2V
R3241 10K/J6
R3242 10K/J6
R3243 10K/J6
R3244 10K/J6
R3245 10K/J6
C3241 0.1/UFN
C3242 0.1/UFN
C3243 0.1/UFN
C3244 0.1/UFN
R3251 1000/J6
DGND
R3248 0/J6
R3249 0/J6
R3250 0/J6
R3246 0/J6
R3247 0/J6
TP3241
R3255 PAT/J6
R3256 100/J6
R3257 PAT/J6
R3258 PAT/J6
R3259 22/J6
R3260 22/J6
R3261 0/J6
C3248 0.1/UFN
TD_EDA_DV_R
EDA_CYL_PG
EDA_CYL_FG
EDA_RST_DV_LR_L
DV_CS_DV_L_L
DV_ALE_EDA
DV_RD_EDA
DV_WR_EDA
DV_ADDT_DV_L[0-15]
IC3241
M65501FP
R3271 0/J6
R3272 0/J6
EDA_TSR_DV_L
EDA_SPA_DV_L
TP3249
R3273 0/J6
R3274 0/J6
EDA_HID_DV_L
TP3250
TP3251
TP3252
TP3253
R3275 0/J6
R3262 0/J6
R3263 0/J6
R3264 0/J6
R3265 0/J6
R3266 0/J6
R3267 0/J6
R3268 0/J6
R3269 0/J6
IDECO_DV_L[0-7]
C3249 0.1/UFN
R3270 0/J6
IDECP_DV_L
C3245 0.1/UFN
R3252 1000/J6
C3246 0.1/UFN
C3247 0.1/UFN
R3253 1000/J6
R3254 1000/J6
TP3242
TP3243
TP3244
TP3245
TP3246
TP3247
TP3248
DV_DAT_L
DV_CLK_L

Ref No. 3241-3275

COMPONENT NAME	F3:NON TRK(EDA DV L)	05/31
CIRCUIT BOARD NO.		
VEP83444A		
		SCN38

KR3V92(5/31)

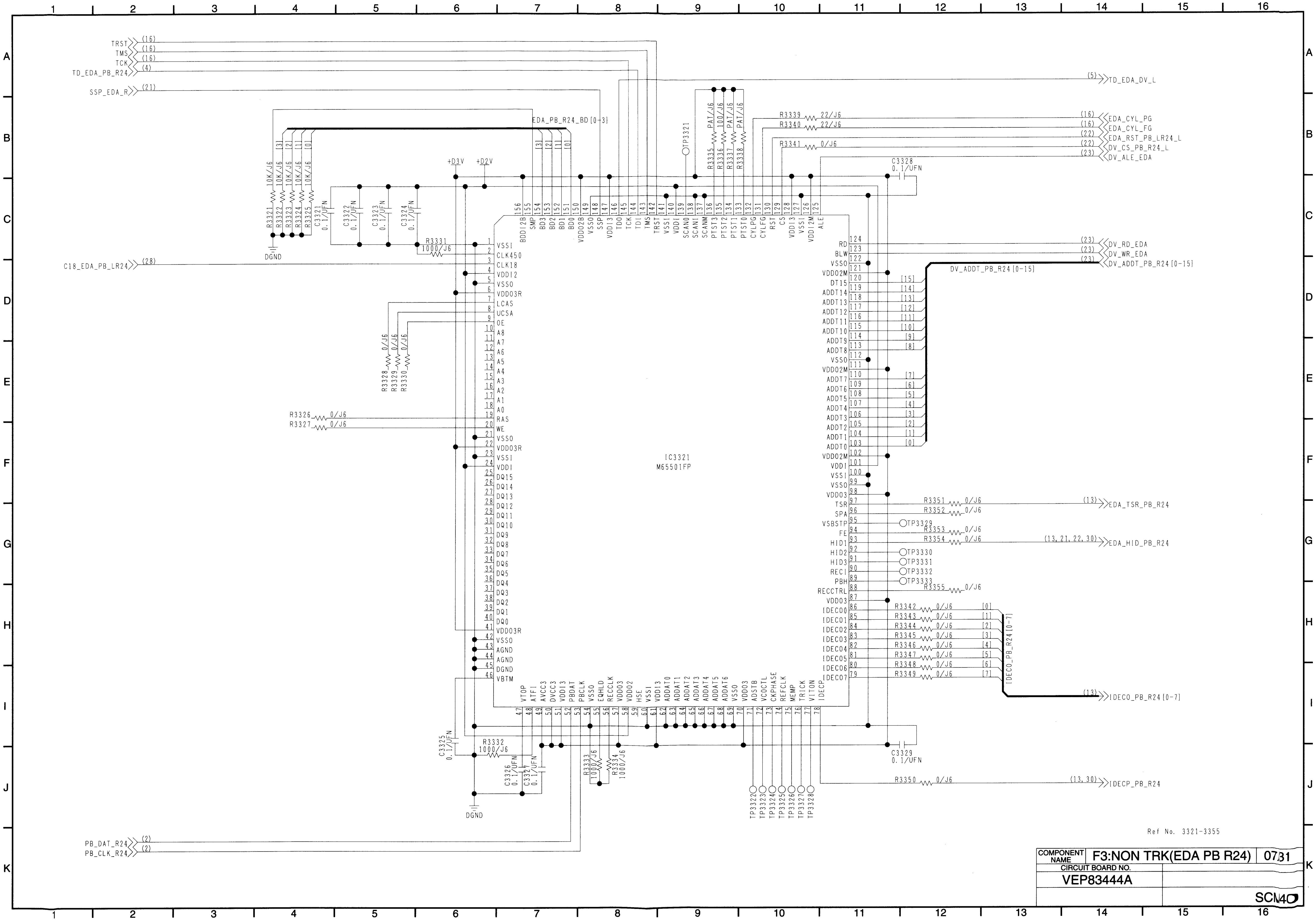


TRST (16)
TMS (16)
TCK (16)
TD_EDA_PB_R13 (3)
SSP_EDA_R (21)
(4) TD_EDA_PB_L24
EDA_PB_R13_BD[0-3]
R3299 22/J6
R3300 22/J6
R3301 0/J6
(21) EDA_CYL_PG
(21) EDA_CYL_FG
(22) EDA_RST_PB_LR13_L
(22) DV_CS_PB_R13_L
(23) DV_ALE_EDA
TP3281
R3295 PAT/J6
R3296 100/J6
R3297 PAT/J6
R3298 PAT/J6
C3288 0.1/UFN
+D3V
+D2V
R3281 10K/J6
R3282 10K/J6
R3283 10K/J6
R3284 10K/J6
R3285 10K/J6
C3281 0.1/UFN
C3282 0.1/UFN
C3283 0.1/UFN
C3284 0.1/UFN
R3291 1000/J6
DGND
C18_EDA_PB_LR13 (28)
(23) DV_RD_EDA
(23) DV_WR_EDA
(23) DV_ADDT_PB_R13[0-15]
DV_ADDT_PB_R13[0-15]
R3288 0/J6
R3289 0/J6
R3290 0/J6
R3286 0/J6
R3287 0/J6
IC3281
M65501FP
VSSI CLK450 CLK18 VDDI2 VSSO VDDO3R LCAS UCSA OE A8 A7 A6 A5 A4 A3 A2 A1 A0 RAS WE VSSO VDDO3R VSSI VDDI DQ15 DQ14 DQ13 DQ12 DQ11 DQ10 DQ9 DQ8 DQ7 DQ6 DQ5 DQ4 DQ3 DQ2 DQ1 DQ0 VDDO3R VSSO AGND AGND DGND VBTM
BDDI2B SMP BD3 BD2 BD1 BD0 VDDO2B VSSO SSP VDDI3 TDO TCK TDI TMS TRST VSSI VDDI SCAN0 SCAN1 SCANM PTST3 PTST2 PTST1 PTST0 CYLPG CYLFG RST CS VDDI3 VSSI VDDI2M ALE
RD BLW VSSO VDDO2M DT15 ADDT14 ADDT13 ADDT12 ADDT11 ADDT10 ADDT9 ADDT8 VSSO VDDO2M ADDT7 ADDT6 ADDT5 ADDT4 ADDT3 ADDT2 ADDT1 ADDT0 VDDO2M VDDI VSSI VSSO VDDO3 TSR SPA VSBSTP FE HID1 HID2 HID3 RECI PBH RECCTRL VDDO3 IDECO0 IDECO1 IDECO2 IDECO3 IDECO4 IDECO5 IDECO6 IDECO7
VTOP ATFI AVCC3 DVCC3 VDDI3 PBDAT PBCLK VSSO EQHLD RECCLK VDDO3 VDDO2 HSE VSSI VDDI3 ADDAT0 ADDAT1 ADDAT2 ADDAT3 ADDAT4 ADDAT5 ADDAT6 VSSO VDDO3 ADSTB VCOCTL CKPHASE REFCLK MEMP TRICK VITON IDECP
R3311 0/J6
(12) EDA_TSR_PB_R13
R3312 0/J6
TP3289
R3313 0/J6
R3314 0/J6
(12, 19, 21, 22, 30) EDA_HID_PB_R13
TP3290
TP3291
TP3292
TP3293
R3315 0/J6
R3302 0/J6
R3303 0/J6
R3304 0/J6
R3305 0/J6
R3306 0/J6
R3307 0/J6
R3308 0/J6
R3309 0/J6
IDECO_PB_R13[0-7]
(12) IDECO_PB_R13[0-7]
C3285 0.1/UFN
R3292 1000/J6
C3286 0.1/UFN
C3287 0.1/UFN
R3293 1000/J6
R3294 1000/J6
C3289 0.1/UFN
R3310 0/J6
(12, 30) IDECP_PB_R13
TP3282 TP3283 TP3284 TP3285 TP3286 TP3287 TP3288
PB_DAT_R13 (2)
PB_CLK_R13 (2)

Ref No. 3281-3315

COMPONENT NAME	F3:NON TRK(EDA PB R1)	06/31
CIRCUIT BOARD NO.		
VEP83444A		
		SCM39

KR3V92(6/31)

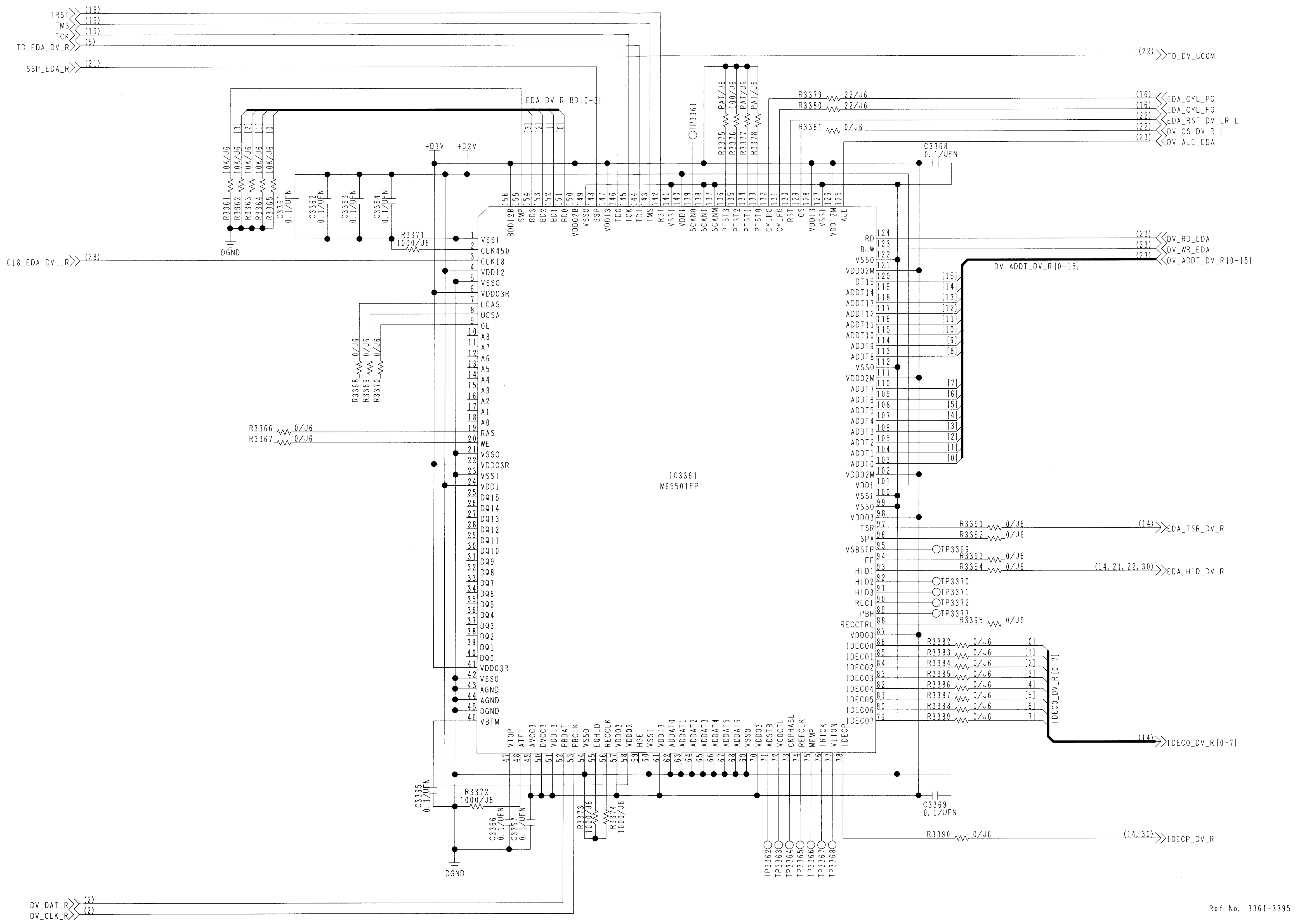

TRST
TMS
TCK
TD_EDA_PB_R24
SSP_EDA_R
C18_EDA_PB_LR24
PB_DAT_R24
PB_CLK_R24
EDA_PB_R24_BD[0-3]
+D3V
+D2V
DGND
R3321 10K/J6
R3322 10K/J6
R3323 10K/J6
R3324 10K/J6
R3325 10K/J6
C3321 0.1/UFN
C3322 0.1/UFN
C3323 0.1/UFN
C3324 0.1/UFN
R3331 1000/J6
R3328 0/J6
R3329 0/J6
R3330 0/J6
R3326 0/J6
R3327 0/J6
TP3321
R3335 PAT/J6
R3336 100/J6
R3337 PAT/J6
R3338 PAT/J6
R3339 22/J6
R3340 22/J6
R3341 0/J6
C3328 0.1/UFN
C3329 0.1/UFN
C3325 0.1/UFN
C3326 0.1/UFN
C3327 0.1/UFN
R3332 1000/J6
R3333 1000/J6
R3334 1000/J6
IC3321
M65501FP
TD_EDA_DV_L
EDA_CYL_PG
EDA_CYL_FG
EDA_RST_PB_LR24_L
DV_CS_PB_R24_L
DV_ALE_EDA
DV_RD_EDA
DV_WR_EDA
DV_ADDT_PB_R24[0-15]
R3351 0/J6
R3352 0/J6
TP3329
R3353 0/J6
R3354 0/J6
EDA_TSR_PB_R24
EDA_HID_PB_R24
TP3330
TP3331
TP3332
TP3333
R3355 0/J6
R3342 0/J6
R3343 0/J6
R3344 0/J6
R3345 0/J6
R3346 0/J6
R3347 0/J6
R3348 0/J6
R3349 0/J6
IDECO_PB_R24[0-7]
R3350 0/J6
IDECP_PB_R24
TP3322
TP3323
TP3324
TP3325
TP3326
TP3327
TP3328
VSSI
CLK450
CLK18
VDDI2
VSSO
VDDO3R
LCAS
UCSA
OE
A8
A7
A6
A5
A4
A3
A2
A1
A0
RAS
WE
VDDI
DQ15
DQ14
DQ13
DQ12
DQ11
DQ10
DQ9
DQ8
DQ7
DQ6
DQ5
DQ4
DQ3
DQ2
DQ1
DQ0
AGND
DGND
VBTM
VTOP
ATFI
AVCC3
DVCC3
VDDI3
PBDAT
PBCLK
EQHLD
RECCLK
VDDO3
VDDO2
HSE
ADDAT0
ADDAT1
ADDAT2
ADDAT3
ADDAT4
ADDAT5
ADDAT6
ADSTB
VCOCTL
CKPHASE
REFCLK
MEMP
TRICK
VITON
IDECP
IDEC07
IDEC06
IDEC05
IDEC04
IDEC03
IDEC02
IDEC01
IDEC00
RECCTRL
PBH
RECI
HID3
HID2
HID1
FE
VSBSTP
SPA
TSR
VDDO2M
ADDT0
ADDT1
ADDT2
ADDT3
ADDT4
ADDT5
ADDT6
ADDT7
ADDT8
ADDT9
ADDT10
ADDT11
ADDT12
ADDT13
ADDT14
DT15
BLW
RD
ALE
VDDI2M
CS
RST
CYLFG
CYLPG
PTST0
PTST1
PTST2
PTST3
SCANM
SCANI
SCANO
TMS
TDI
TDO
SSP
VDDO2B
BD0
BD1
BD2
BD3
SMP
BDDI2B

Ref No. 3321-3355

COMPONENT NAME	F3:NON TRK(EDA PB R24)	07/31
CIRCUIT BOARD NO.		
VEP83444A		

SCM40

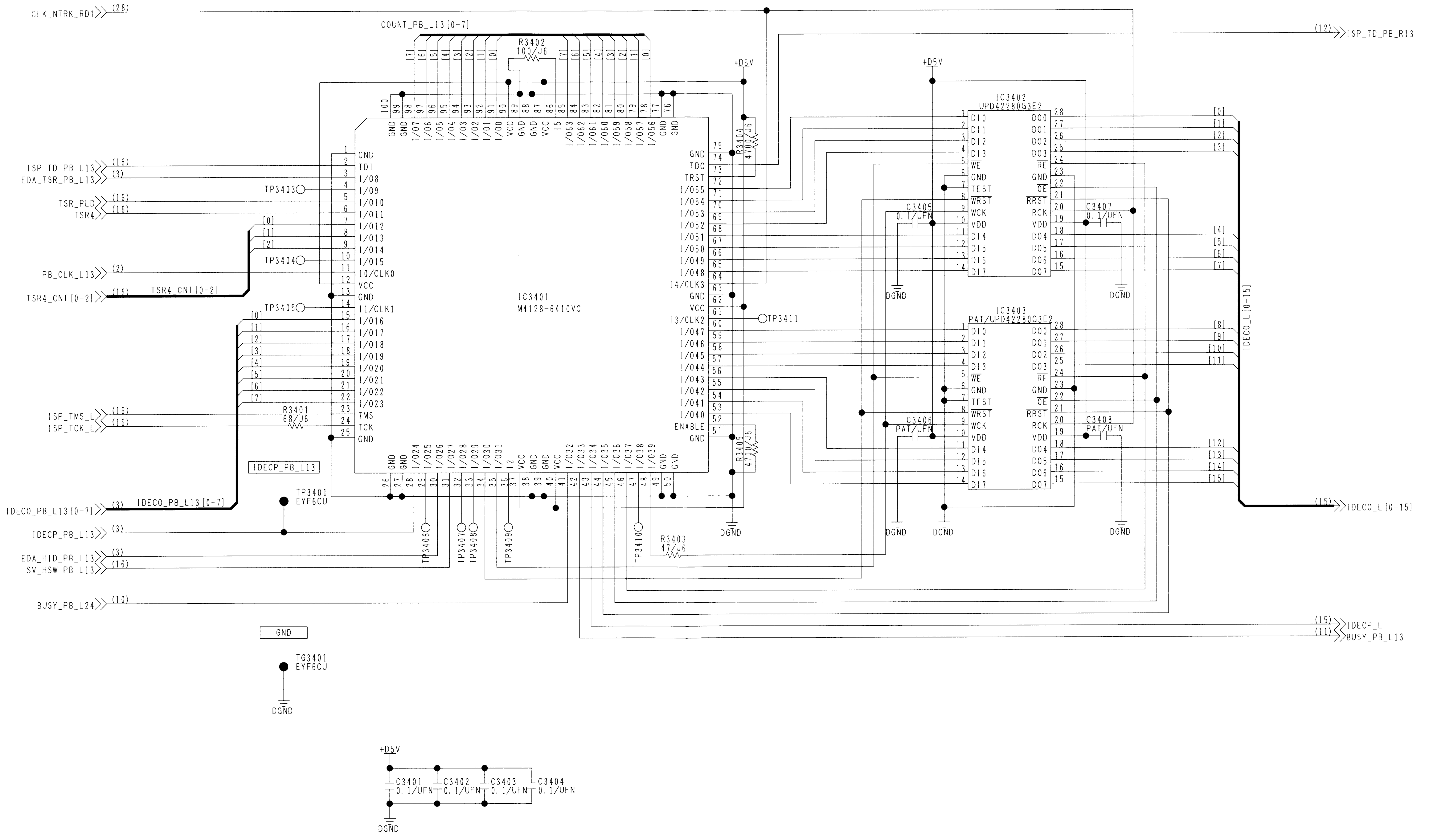
KR3V92(7/31)


TRST (16)
TMS (16)
TCK (16)
TD_EDA_DV_R (5)
SSP_EDA_R (21)
(22) TD_DV_UCOM
EDA_DV_R_BD[0-3]
R3361 10K/J6
R3362 10K/J6
R3363 10K/J6
R3364 10K/J6
R3365 10K/J6
C3361 0.1/UFN
C3362 0.1/UFN
C3363 0.1/UFN
C3364 0.1/UFN
DGND
+D3V
+D2V
R3371 1000/J6
C18_EDA_DV_LR (28)
TP3361
R3375 PAT/J6
R3376 100/J6
R3377 PAT/J6
R3378 PAT/J6
R3379 22/J6
R3380 22/J6
R3381 0/J6
C3368 0.1/UFN
(16) EDA_CYL_PG
(16) EDA_CYL_FG
(22) EDA_RST_DV_LR_L
(22) DV_CS_DV_R_L
(23) DV_ALE_EDA
(23) DV_RD_EDA
(23) DV_WR_EDA
(23) DV_ADDT_DV_R[0-15]
DV_ADDT_DV_R[0-15]
R3368 0/J6
R3369 0/J6
R3370 0/J6
R3366 0/J6
R3367 0/J6
IC3361
M65501FP
R3391 0/J6
R3392 0/J6
(14) EDA_TSR_DV_R
TP3369
R3393 0/J6
R3394 0/J6
(14,21,22,30) EDA_HID_DV_R
TP3370
TP3371
TP3372
TP3373
R3395 0/J6
R3382 0/J6
R3383 0/J6
R3384 0/J6
R3385 0/J6
R3386 0/J6
R3387 0/J6
R3388 0/J6
R3389 0/J6
IDECO_DV_R[0-7]
(14) IDECO_DV_R[0-7]
C3369 0.1/UFN
R3390 0/J6
(14,30) IDECP_DV_R
C3365 0.1/UFN
R3372 1000/J6
C3366 0.1/UFN
C3367 0.1/UFN
R3373 1000/J6
R3374 1000/J6
TP3362
TP3363
TP3364
TP3365
TP3366
TP3367
TP3368
DV_DAT_R (2)
DV_CLK_R (2)

Ref No. 3361-3395

COMPONENT NAME	F3:NON TRK(EDA DV R)	08/31
CIRCUIT BOARD NO.		
VEP83444A		
		SCM41

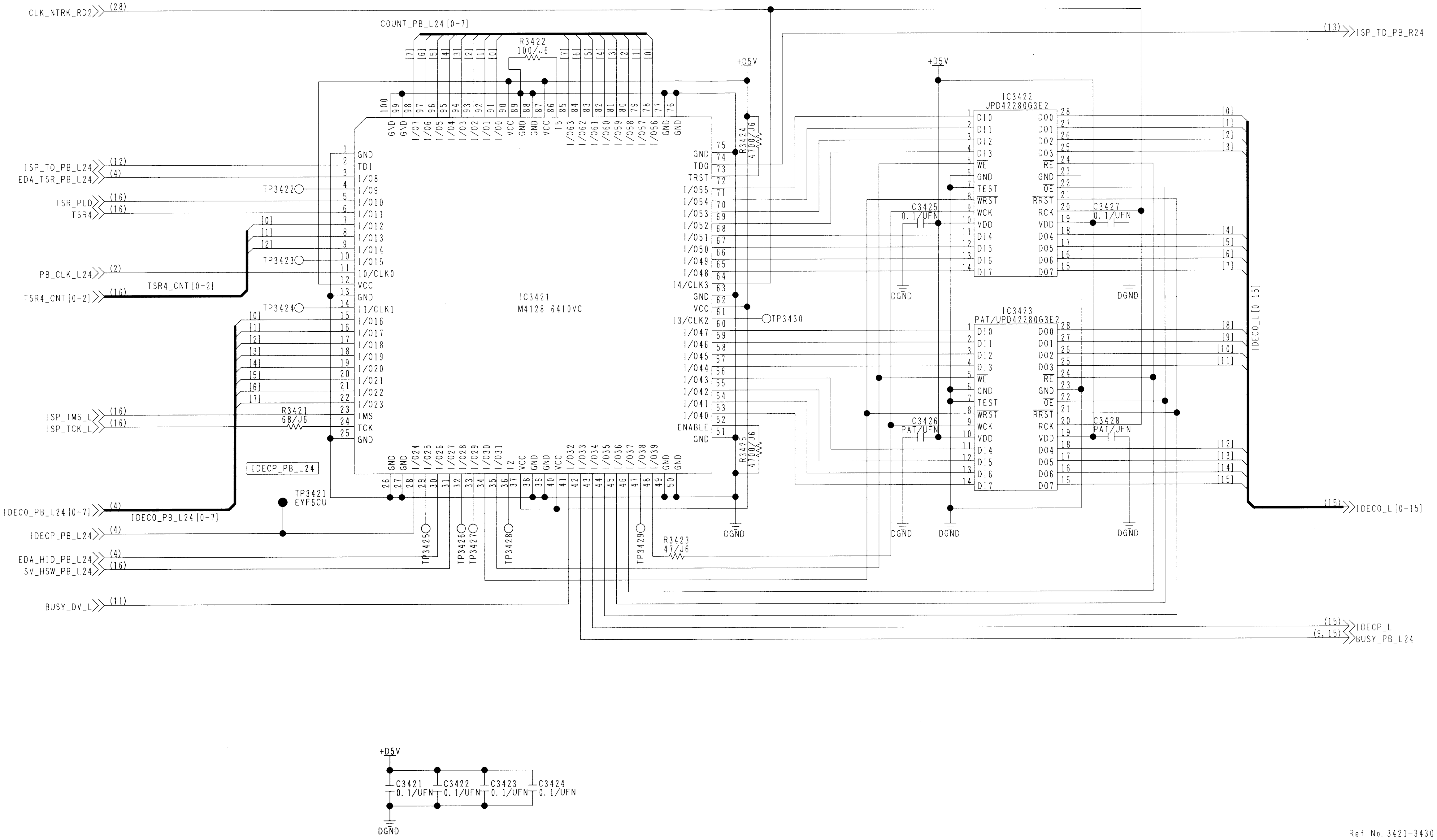
KR3V92(8/31)


CLK_NTRK_RD1 (28)
COUNT_PB_L13[0-7]
R3402 100/J6
+D5V
ISP_TD_PB_R13 (12)
ISP_TD_PB_L13 (16)
EDA_TSR_PB_L13 (3)
TP3403
TSR_PLD (16)
TSR4 (16)
TP3404
PB_CLK_L13 (2)
TSR4_CNT[0-2] (16)
TP3405
ISP_TMS_L (16)
ISP_TCK_L (16)
R3401 68/J6
IDECP_PB_L13
IDECO_PB_L13[0-7] (3)
IDECP_PB_L13 (3)
EDA_HID_PB_L13 (3)
SV_HSW_PB_L13 (16)
BUSY_PB_L24 (10)
TP3401 EYF6CU
GND
TG3401 EYF6CU
DGND
IC3401 M4128-6410VC
R3404 470/J6
R3405 470/J6
TP3411
TP3406
TP3407
TP3408
TP3409
TP3410
R3403 47/J6
IC3402 UPD42280G3E2
IC3403 PAT/UPD42280G3E2
C3405 0.1/UFN
C3406 PAT/UFN
C3407 0.1/UFN
C3408 PAT/UFN
IDECO_L[0-15] (15)
IDECP_L (15)
BUSY_PB_L13 (11)
C3401 0.1/UFN
C3402 0.1/UFN
C3403 0.1/UFN
C3404 0.1/UFN

Ref No. 3401-3410

COMPONENT NAME	F3:NON TRK(FIFO CTRL PB L13)	09/31
CIRCUIT BOARD NO.		
VEP83444A		
		SCM42

KR3V92(9/31)

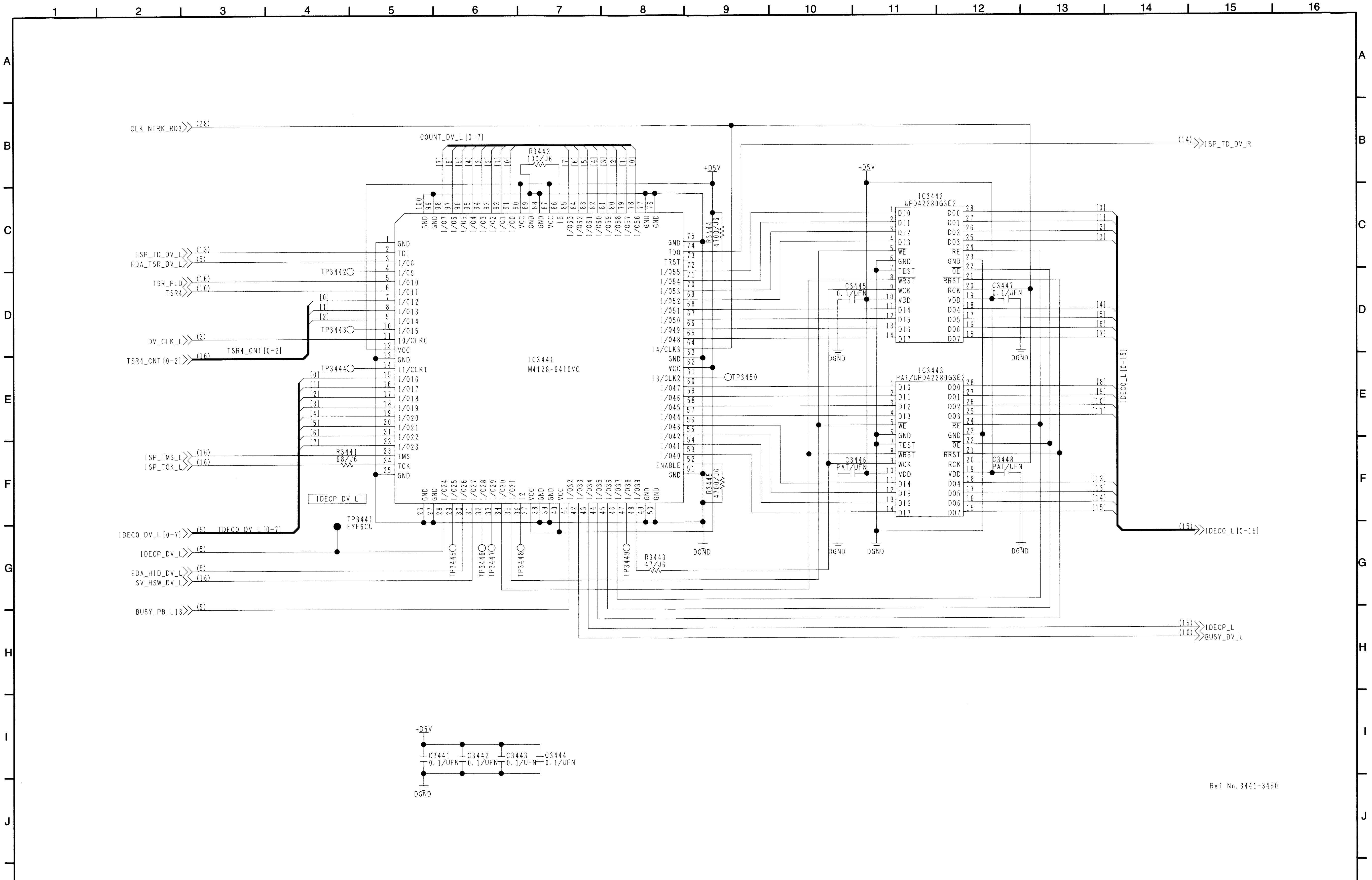

CLK_NTRK_RD2 (28)
COUNT_PB_L24 [0-7]
R3422 100/J6
+D5V
ISP_TD_PB_L24 (12)
EDA_TSR_PB_L24 (4)
TSR_PLD (16)
TSR4 (16)
PB_CLK_L24 (2)
TSR4_CNT [0-2] (16)
TSR4_CNT [0-2]
TP3422
TP3423
TP3424
IDECO_PB_L24 [0-7] (4)
IDECO_PB_L24 [0-7]
IDECP_PB_L24
IDECP_PB_L24 (4)
EDA_HID_PB_L24 (4)
SV_HSW_PB_L24 (16)
BUSY_DV_L (11)
ISP_TMS_L (16)
ISP_TCK_L (16)
R3421 68/J6
TP3421 EYF6CU
IC3421
M4128-6410VC
GND
TDI
TDO
TRST
TMS
TCK
VCC
ENABLE
10/CLK0
11/CLK1
12
13/CLK2
14/CLK3
I5
R3424 470/J6
R3425 470/J6
R3423 47/J6
TP3425
TP3426
TP3427
TP3428
TP3429
TP3430
DGND
IC3422
UPD42280G3E2
IC3423
PAT/UPD42280G3E2
DI0
DI1
DI2
DI3
DI4
DI5
DI6
DI7
DO0
DO1
DO2
DO3
DO4
DO5
DO6
DO7
WE
RE
OE
TEST
WRST
RRST
WCK
RCK
VDD
C3425 0.1/UFN
C3426 PAT/UFN
C3427 0.1/UFN
C3428 PAT/UFN
IDECO_L [0-15]
(15) IDECO_L [0-15]
(13) ISP_TD_PB_R24
(15) IDECP_L
(9, 15) BUSY_PB_L24
C3421 0.1/UFN
C3422 0.1/UFN
C3423 0.1/UFN
C3424 0.1/UFN

Ref No. 3421-3430

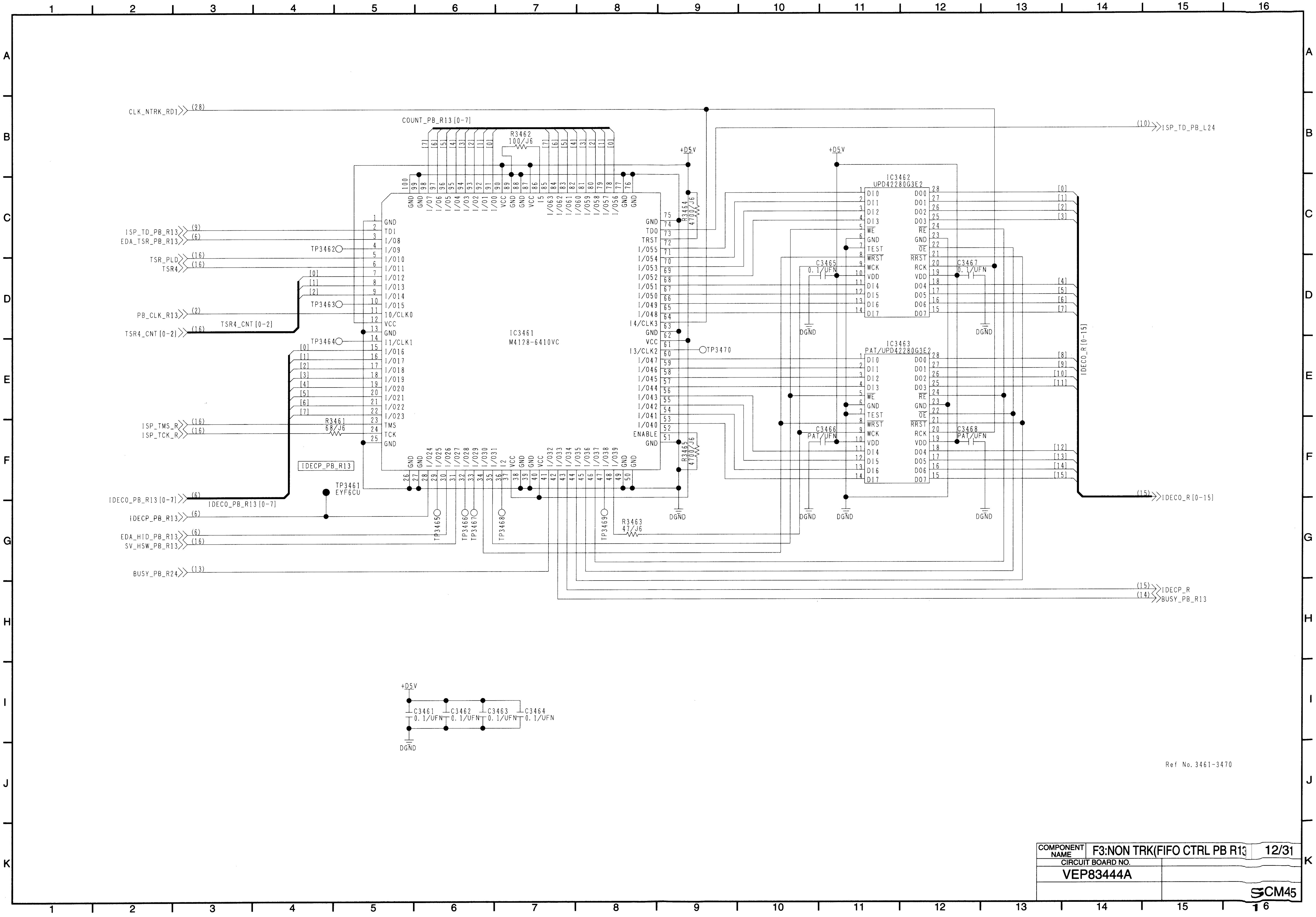
COMPONENT NAME	F3:NON TRK(FIFO CTRL PB L24)	10/31
CIRCUIT BOARD NO.		
VEP83444A		

SCM43

KR3V92(10/31)


CLK_NTRK_RD3 (28)
COUNT_DV_L [0-7]
R3442 100/J6
+D5V
ISP_TD_DV_L (13)
EDA_TSR_DV_L (5)
TP3442
TSR_PLD (16)
TSR4 (16)
DV_CLK_L (2)
TSR4_CNT [0-2] (16)
TSR4_CNT [0-2]
TP3443
TP3444
ISP_TMS_L (16)
ISP_TCK_L (16)
R3441 68/J6
IDECP_DV_L
TP3441 EYF6CU
IDECO_DV_L [0-7] (5)
IDECO_DV_L [0-7]
IDECP_DV_L (5)
EDA_HID_DV_L (5)
SV_HSW_DV_L (16)
BUSY_PB_L13 (9)
IC3441 M4128-6410VC
GND
TDI
TDO
TRST
TMS
TCK
VCC
ENABLE
10/CLK0
11/CLK1
13/CLK2
14/CLK3
I5
I2
TP3445
TP3446
TP3447
TP3448
TP3449
TP3450
R3443 47/J6
R3444 4700/J6
R3445 4700/J6
DGND
IC3442 UPD42280G3E2
IC3443 PAT/UPD42280G3E2
DI0 DI1 DI2 DI3 DI4 DI5 DI6 DI7
DO0 DO1 DO2 DO3 DO4 DO5 DO6 DO7
WE
RE
OE
TEST
WRST
RRST
WCK
RCK
VDD
C3445 0.1/UFN
C3446 PAT/UFN
C3447 0.1/UFN
C3448 PAT/UFN
(14) ISP_TD_DV_R
IDECO_L [0-15]
(15) IDECO_L [0-15]
(15) IDECP_L
(10) BUSY_DV_L
C3441 0.1/UFN
C3442 0.1/UFN
C3443 0.1/UFN
C3444 0.1/UFN
Ref No. 3441-3450
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

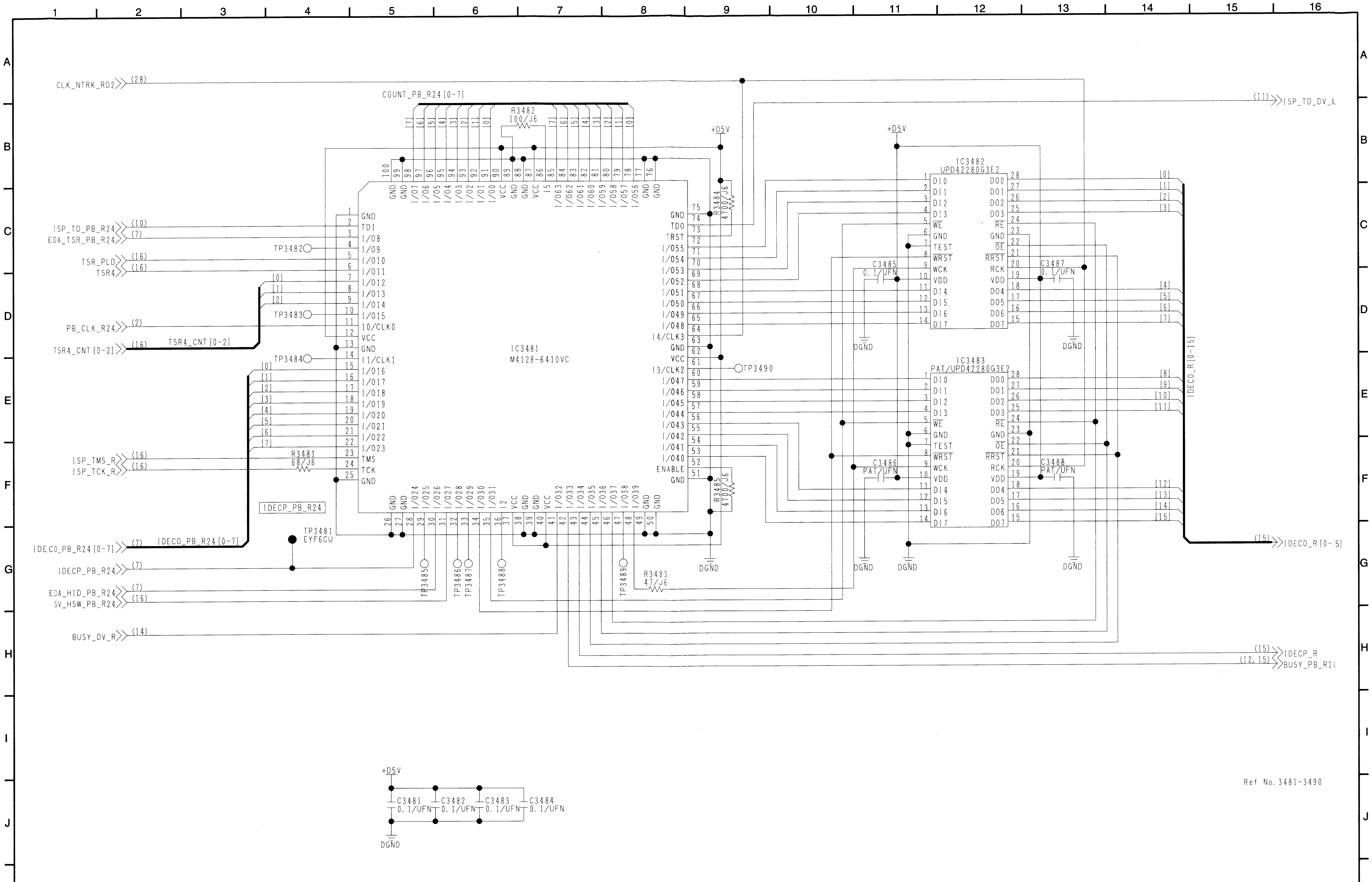
COMPONENT NAME	F3:NON TRK(FIFO CTRL DV L)	1131
CIRCUIT BOARD NO.		
VEP83444A		
	SCM44	


CLK_NTRK_RD1 (28)
COUNT_PB_R13[0-7]
R3462 100/J6
(10) ISP_TD_PB_L24
+D5V
IC3462 UPD42280G3E2
IC3463 PAT/UPD42280G3E2
ISP_TD_PB_R13 (9)
EDA_TSR_PB_R13 (6)
TSR_PLD (16)
TSR4 (16)
TP3462
TP3463
TP3464
PB_CLK_R13 (2)
TSR4_CNT[0-2] (16)
TSR4_CNT[0-2]
IC3461
M4128-6410VC
TP3470
R3464 4700/J6
R3465 4700/J6
C3465 0.1/UFN
C3466 PAT/UFN
C3467 0.1/UFN
C3468 PAT/UFN
DGND
IDECO_R[0-15]
(15) IDECO_R[0-15]
ISP_TMS_R (16)
ISP_TCK_R (16)
R3461 68/J6
IDECP_PB_R13
TP3461 EYF6CU
IDECO_PB_R13[0-7] (6)
IDECO_PB_R13[0-7]
IDECP_PB_R13 (6)
EDA_HID_PB_R13 (6)
SV_HSW_PB_R13 (16)
BUSY_PB_R24 (13)
TP3465
TP3466
TP3467
TP3468
TP3469
R3463 47/J6
(15) IDECP_R
(14) BUSY_PB_R13
C3461 0.1/UFN
C3462 0.1/UFN
C3463 0.1/UFN
C3464 0.1/UFN
Ref No. 3461-3470

COMPONENT NAME F3:NON TRK(FIFO CTRL PB R13 12/31
CIRCUIT BOARD NO.
VEP83444A

SCM45

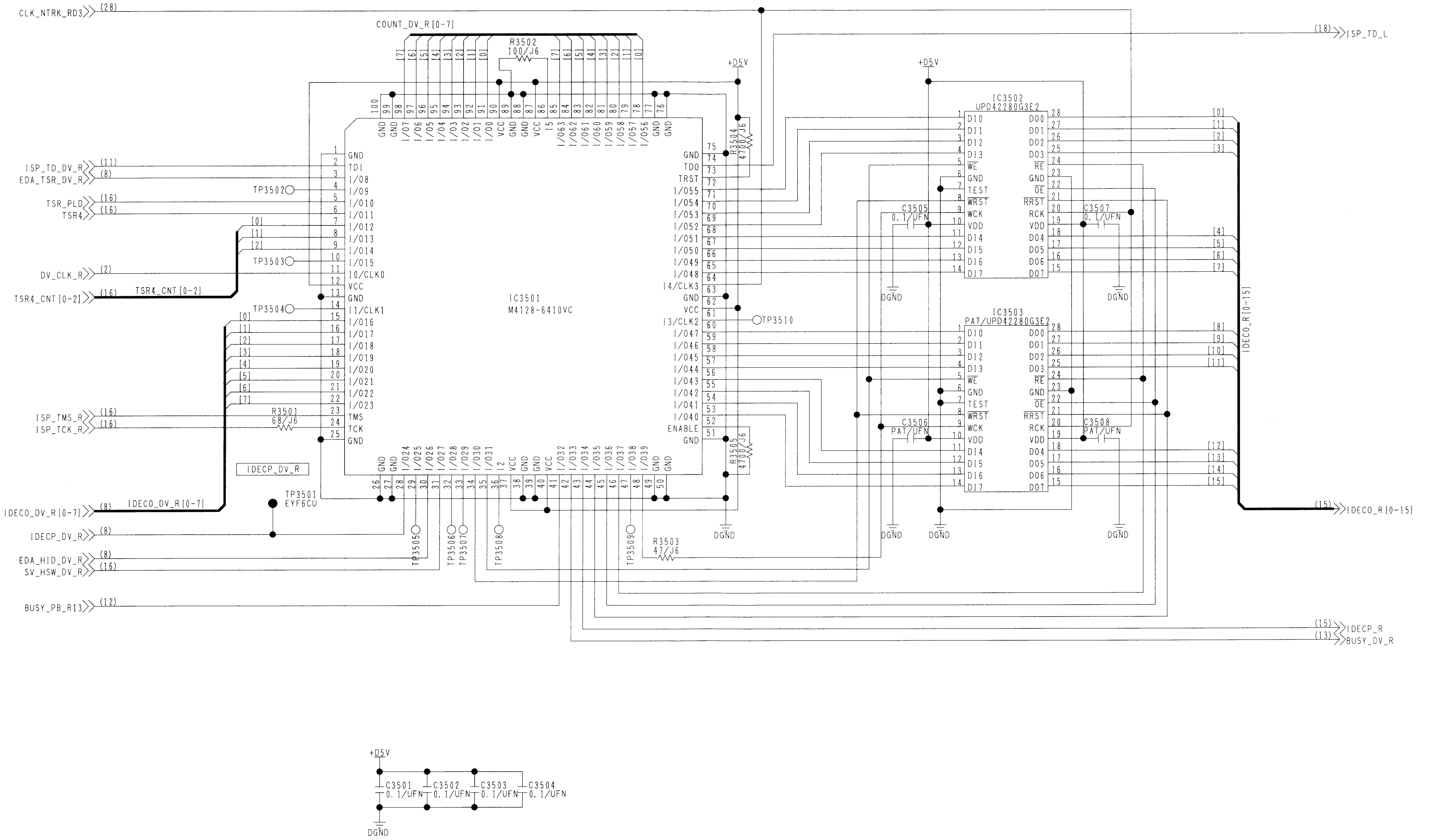
KR3V92(12/31)


CLK_NTRK_RD2 (28)
COUNT_PB_R24[0-7]
R3482 100/J6
+D5V
(11) ISP_TD_DV_L
ISP_TD_PB_R24 (10)
EDA_TSR_PB_R24 (7)
TSR_PLD (16)
TSR4 (16)
PB_CLK_R24 (2)
TSR4_CNT[0-2] (16) TSR4_CNT[0-2]
ISP_TMS_R (16)
ISP_TCK_R (16)
R3481 68/J6
IDECP_PB_R24
IDECO_PB_R24[0-7] (7) IDECO_PB_R24[0-7]
TP3481 EYF6CU
IDECP_PB_R24 (7)
EDA_HID_PB_R24 (7)
SV_HSW_PB_R24 (16)
BUSY_DV_R (14)
TP3482
TP3483
TP3484
TP3485
TP3486
TP3487
TP3488
TP3489
TP3490
IC3481
M4128-6410VC
R3483 47/J6
R3484 4700/J6
R3485 4700/J6
IC3482
UPD42280G3E2
IC3483
PAT/UPD42280G3E2
C3485 0.1/UFN
C3486 PAT/UFN
C3487 0.1/UFN
C3488 PAT/UFN
DGND
IDECO_R[0-15]
(15) IDECO_R[0-15]
(15) IDECP_R
(12,15) BUSY_PB_R24
C3481 0.1/UFN
C3482 0.1/UFN
C3483 0.1/UFN
C3484 0.1/UFN

Ref No. 3481-3490

COMPONENT NAME	F3:NON TRK(FIFO CTROL PB R24)	13/31
CIRCUIT BOARD NO.		
VEP83444A		
	SCM46	

KR3V92(13/31)

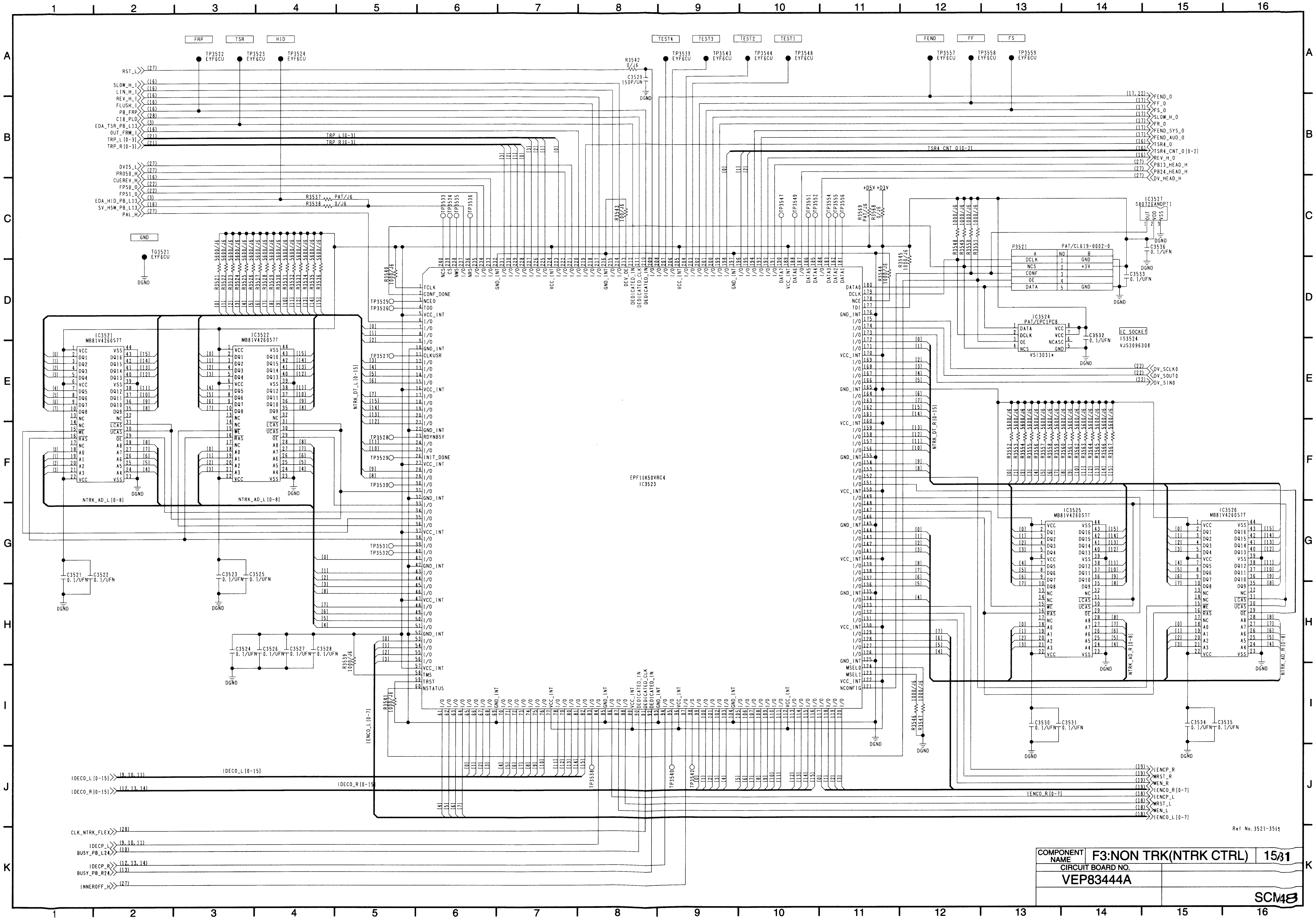

CLK_NTRK_RD3
COUNT_DV_R[0-7]
R3502 100/J6
+D5V
IC3501
M4128-6410VC
IC3502
UPD42280G3E2
IC3503
PAT/UPD42280G3E2
ISP_TD_L
ISP_TD_DV_R
EDA_TSR_DV_R
TSR_PLD
TSR4
DV_CLK_R
TSR4_CNT[0-2]
TP3502
TP3503
TP3504
TP3510
ISP_TMS_R
ISP_TCK_R
R3501 68/J6
R3504 4700/J6
R3505 4700/J6
IDECP_DV_R
IDECO_DV_R[0-7]
TP3501 EYF6CU
EDA_HID_DV_R
SV_HSW_DV_R
BUSY_PB_R13
TP3505
TP3506
TP3507
TP3508
TP3509
R3503 47/J6
C3505 0.1/UFN
C3506 PAT/UFN
C3507 0.1/UFN
C3508 PAT/UFN
DGND
IDECO_R[0-15]
IDECP_R
BUSY_DV_R
C3501 0.1/UFN
C3502 0.1/UFN
C3503 0.1/UFN
C3504 0.1/UFN

Ref No. 3501-3510

COMPONENT NAME	F3:NON TRK(FIFO CTRL DV R)	14/31
CIRCUIT BOARD NO.		
VEP83444A		

SCM47

KR3V92(14/31)

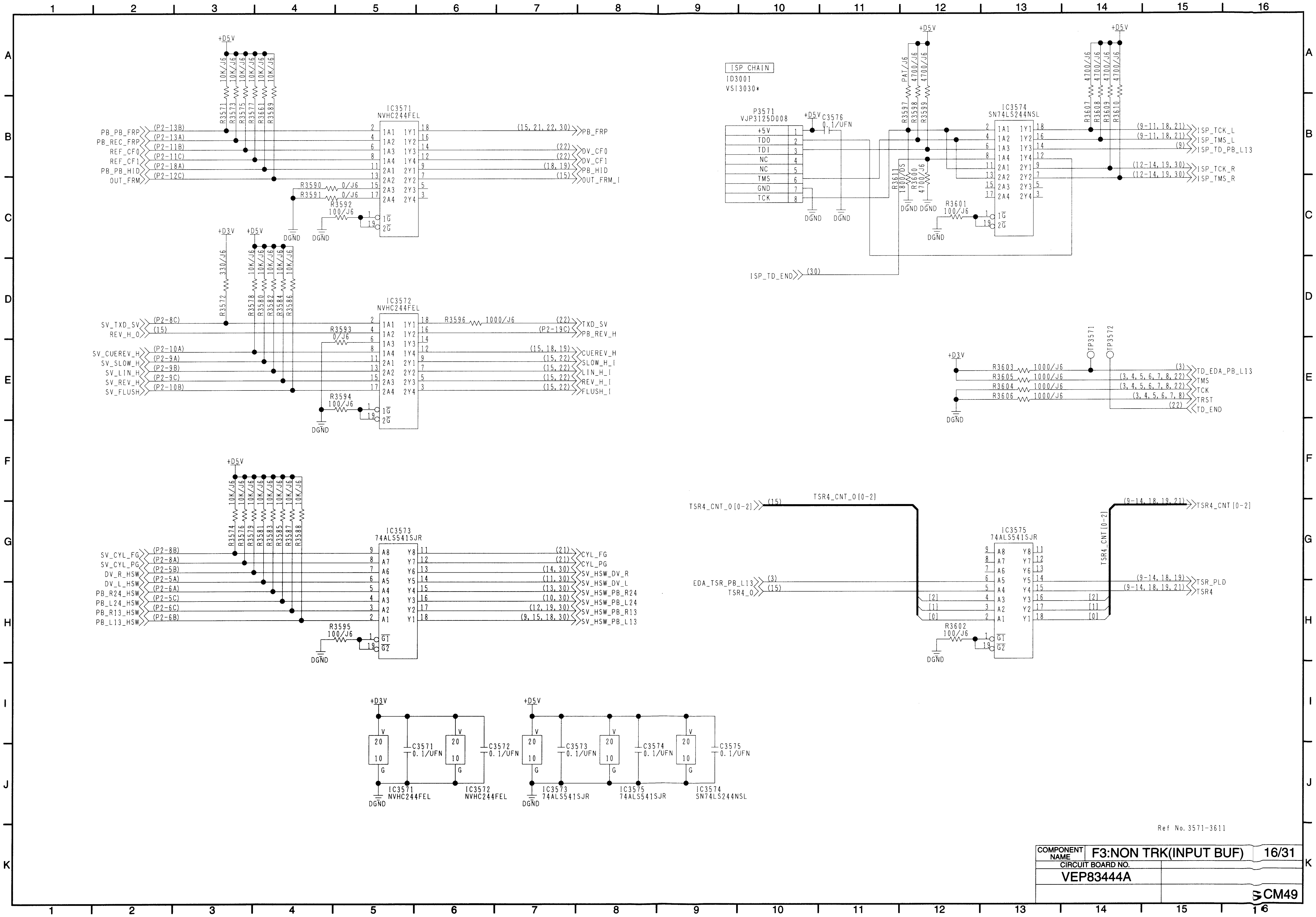


FRP
TSR
HID
TEST4
TEST3
TEST2
TEST1
FEND
FF
FS
RST_L
SLOW_H_I
LIN_H_I
REV_H_I
FLUSH_I
PB_FRP
C18_PLD
EDA_TSR_PB_L13
OUT_FRM_I
TRP_L [0-3]
TRP_R [0-3]
DV25_L
PROSO_H
CUEREV_H
FPS0_O
FPS1_O
EDA_HID_PB_L13
SV_HSW_PB_L13
PAL_H
GND
TG3521
EYF6CU
DGND
IC3521
MB81V4260S7T
IC3522
MB81V4260S7T
NTRK_AD_L [0-8]
NTRK_DT_L [0-15]
EPF10K50VRC4
IC3523
IC3524
PAT/EPC1PC8
VS13031*
IC3525
MB81V4260S7T
IC3526
MB81V4260S7T
NTRK_AD_R [0-8]
NTRK_DT_R [0-15]
IC3527
S80726ANDPT1
P3521
PAT/CL619-0002-0
IC SOCKET
IS3524
VJ53096308
TSR4_CNT_O [0-2]
FEND_O
FF_O
FS_O
SLOW_H_O
FR_O
FEND_SYS_O
FEND_AUD_O
TSR4_O
TSR4_CNT_O [0-2]
REV_H_O
PB13_HEAD_H
PB24_HEAD_H
DV_HEAD_H
DV_SCLKO
DV_SOUTO
DV_SINO
IDECO_L [0-15]
IDECO_R [0-15]
IENCO_L [0-7]
IENCO_R [0-7]
IENCP_R
WRST_R
WEN_R
IENCO_R [0-7]
IENCP_L
WRST_L
WEN_L
IENCO_L [0-7]
CLK_NTRK_FLEX
IDECP_L
BUSY_PB_L24
IDECP_R
BUSY_PB_R24
INNEROFF_H

Ref No. 3521-3565

COMPONENT NAME	F3:NON TRK(NTRK CTRL)	15/31
CIRCUIT BOARD NO.		
VEP83444A		
		SCM48

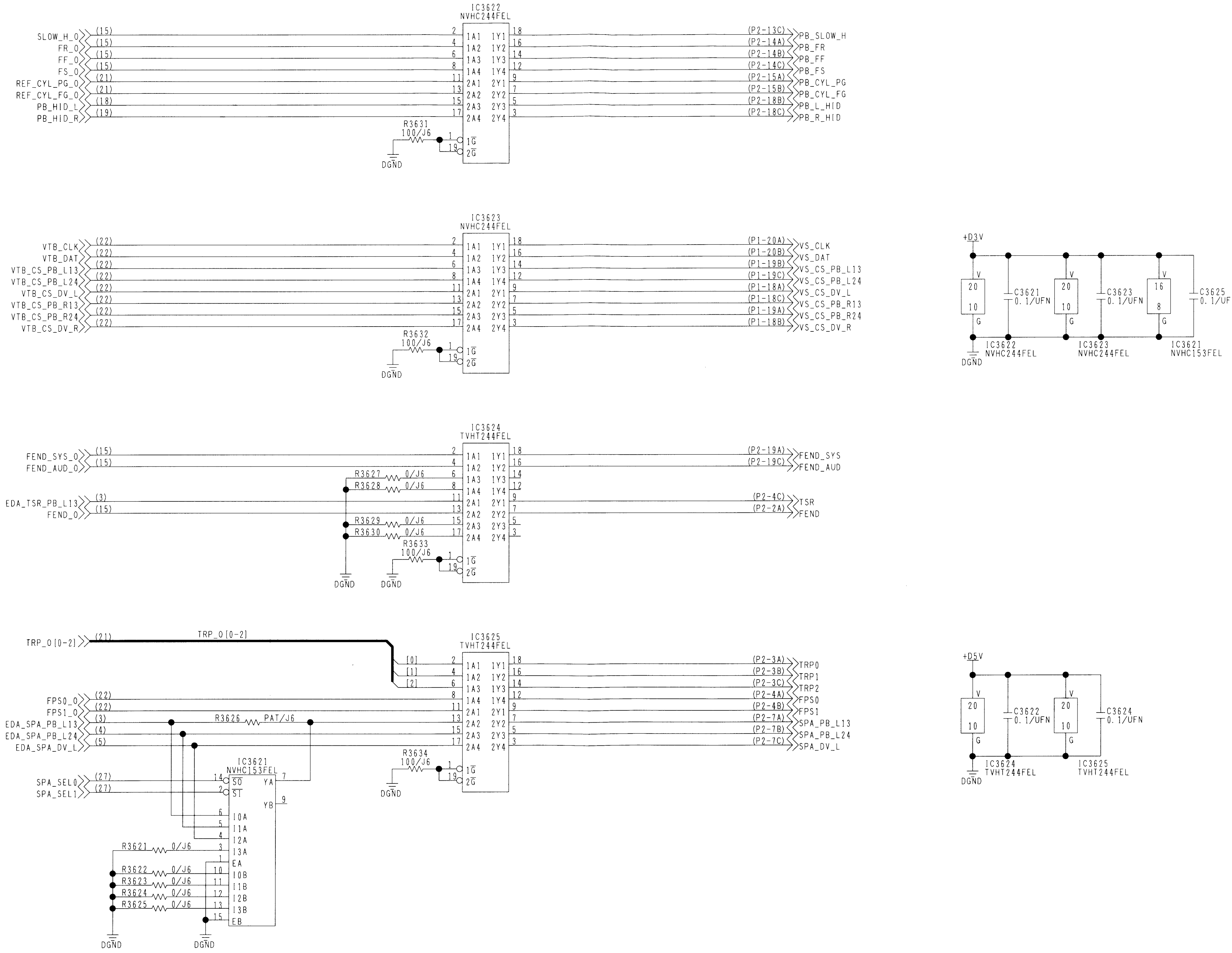
KR3V92(15/31)


IC3571 NVHC244FEL
PB_PB_FRP
PB_REC_FRP
REF_CF0
REF_CF1
PB_PB_HID
OUT_FRM
PB_FRP
DV_CF0
DV_CF1
PB_HID
OUT_FRM_I
R3590 0/J6
R3591 0/J6
R3592 100/J6
IC3572 NVHC244FEL
SV_TXD_SV
REV_H_O
SV_CUEREV_H
SV_SLOW_H
SV_LIN_H
SV_REV_H
SV_FLUSH
R3596 1000/J6
R3593 0/J6
R3594 100/J6
TXD_SV
PB_REV_H
CUEREV_H
SLOW_H_I
LIN_H_I
REV_H_I
FLUSH_I
IC3573 74ALS541SJR
SV_CYL_FG
SV_CYL_PG
DV_R_HSW
DV_L_HSW
PB_R24_HSW
PB_L24_HSW
PB_R13_HSW
PB_L13_HSW
CYL_FG
CYL_PG
SV_HSW_DV_R
SV_HSW_DV_L
SV_HSW_PB_R24
SV_HSW_PB_L24
SV_HSW_PB_R13
SV_HSW_PB_L13
R3595 100/J6
ISP CHAIN
ID3001
VSI3030*
P3571 VJP3125D008
+5V
TDO
TDI
NC
NC
TMS
GND
TCK
C3576 0.1/UFN
IC3574 SN74LS244NSL
ISP_TCK_L
ISP_TMS_L
ISP_TD_PB_L13
ISP_TCK_R
ISP_TMS_R
ISP_TD_END
R3601 100/J6
TP3571
TP3572
R3603 1000/J6
R3605 1000/J6
R3604 1000/J6
R3606 1000/J6
TD_EDA_PB_L13
TMS
TCK
TRST
TD_END
TSR4_CNT_O[0-2]
EDA_TSR_PB_L13
TSR4_O
IC3575 74ALS541SJR
TSR4_CNT[0-2]
TSR_PLD
TSR4
R3602 100/J6
C3571 0.1/UFN
C3572 0.1/UFN
C3573 0.1/UFN
C3574 0.1/UFN
C3575 0.1/UFN
+D3V
+D5V
DGND

Ref No. 3571-3611

COMPONENT NAME	F3:NON TRK(INPUT BUF)	16/31
CIRCUIT BOARD NO.		
VEP83444A		
		CM49

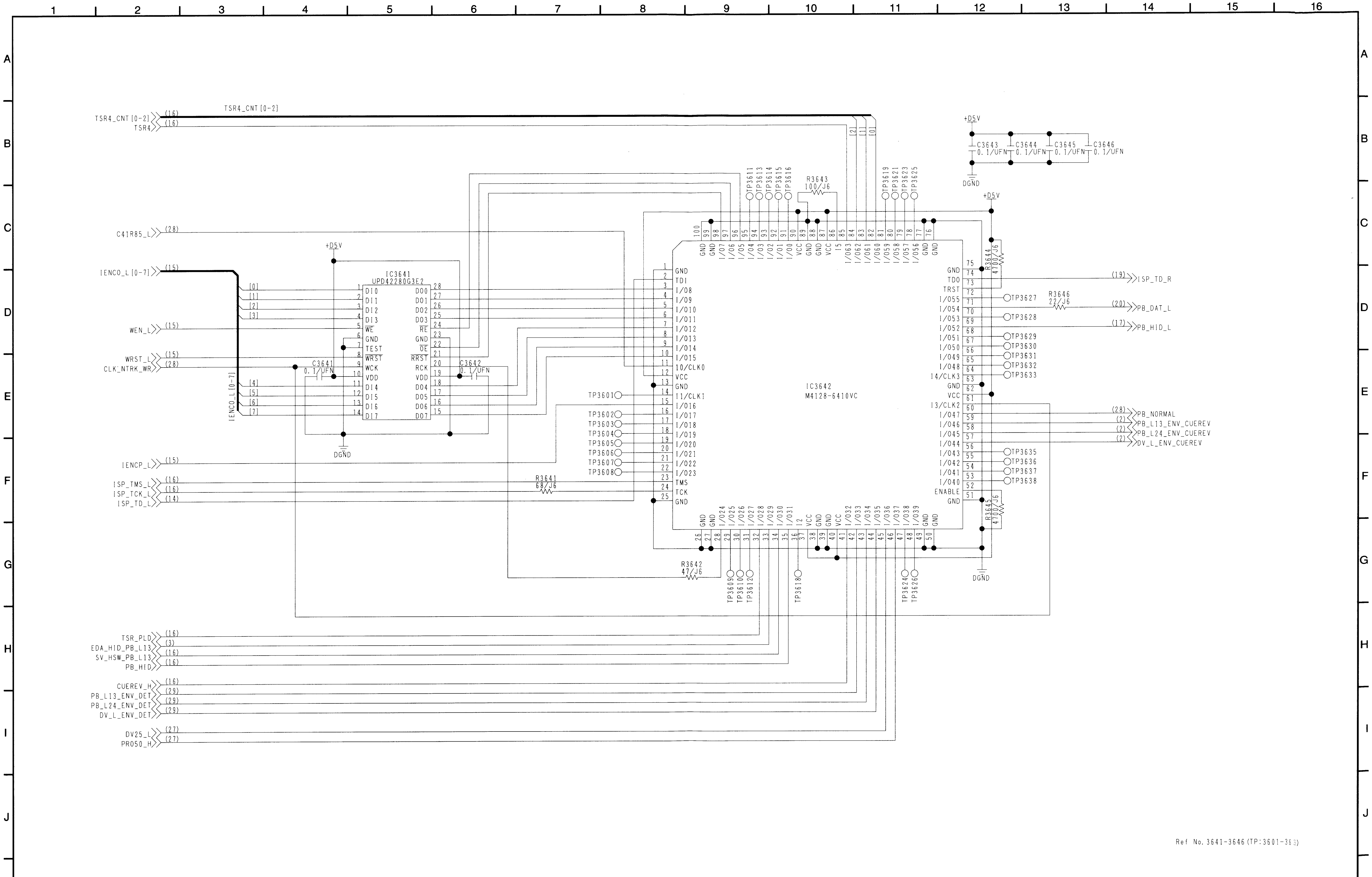
KR3V92(16/31)


IC3622 NVHC244FEL
SLOW_H_O (15)
FR_O (15)
FF_O (15)
FS_O (15)
REF_CYL_PG_O (21)
REF_CYL_FG_O (21)
PB_HID_L (18)
PB_HID_R (19)
(P2-13C) PB_SLOW_H
(P2-14A) PB_FR
(P2-14B) PB_FF
(P2-14C) PB_FS
(P2-15A) PB_CYL_PG
(P2-15B) PB_CYL_FG
(P2-18B) PB_L_HID
(P2-18C) PB_R_HID
R3631 100/J6
DGND
IC3623 NVHC244FEL
VTB_CLK (22)
VTB_DAT (22)
VTB_CS_PB_L13 (22)
VTB_CS_PB_L24 (22)
VTB_CS_DV_L (22)
VTB_CS_PB_R13 (22)
VTB_CS_PB_R24 (22)
VTB_CS_DV_R (22)
(P1-20A) VS_CLK
(P1-20B) VS_DAT
(P1-19B) VS_CS_PB_L13
(P1-19C) VS_CS_PB_L24
(P1-18A) VS_CS_DV_L
(P1-18C) VS_CS_PB_R13
(P1-19A) VS_CS_PB_R24
(P1-18B) VS_CS_DV_R
R3632 100/J6
DGND
IC3624 TVHT244FEL
FEND_SYS_O (15)
FEND_AUD_O (15)
EDA_TSR_PB_L13 (3)
FEND_O (15)
R3627 0/J6
R3628 0/J6
R3629 0/J6
R3630 0/J6
R3633 100/J6
(P2-19A) FEND_SYS
(P2-19C) FEND_AUD
(P2-4C) TSR
(P2-2A) FEND
DGND
DGND
IC3625 TVHT244FEL
TRP_O[0-2] (21)
TRP_O[0-2]
[0]
[1]
[2]
FPS0_O (22)
FPS1_O (22)
EDA_SPA_PB_L13 (3)
EDA_SPA_PB_L24 (4)
EDA_SPA_DV_L (5)
R3626 PAT/J6
R3634 100/J6
(P2-3A) TRP0
(P2-3B) TRP1
(P2-3C) TRP2
(P2-4A) FPS0
(P2-4B) FPS1
(P2-7A) SPA_PB_L13
(P2-7B) SPA_PB_L24
(P2-7C) SPA_DV_L
DGND
IC3621 NVHC153FEL
SPA_SEL0 (27)
SPA_SEL1 (27)
S0
S1
YA
YB
I0A
I1A
I2A
I3A
EA
I0B
I1B
I2B
I3B
EB
R3621 0/J6
R3622 0/J6
R3623 0/J6
R3624 0/J6
R3625 0/J6
DGND
DGND
1A1
1A2
1A3
1A4
2A1
2A2
2A3
2A4
1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
1G
2G
+D3V
C3621 0.1/UFN
C3623 0.1/UFN
C3625 0.1/UFN
IC3622 NVHC244FEL
IC3623 NVHC244FEL
IC3621 NVHC153FEL
DGND
+D5V
C3622 0.1/UFN
C3624 0.1/UFN
IC3624 TVHT244FEL
IC3625 TVHT244FEL
DGND

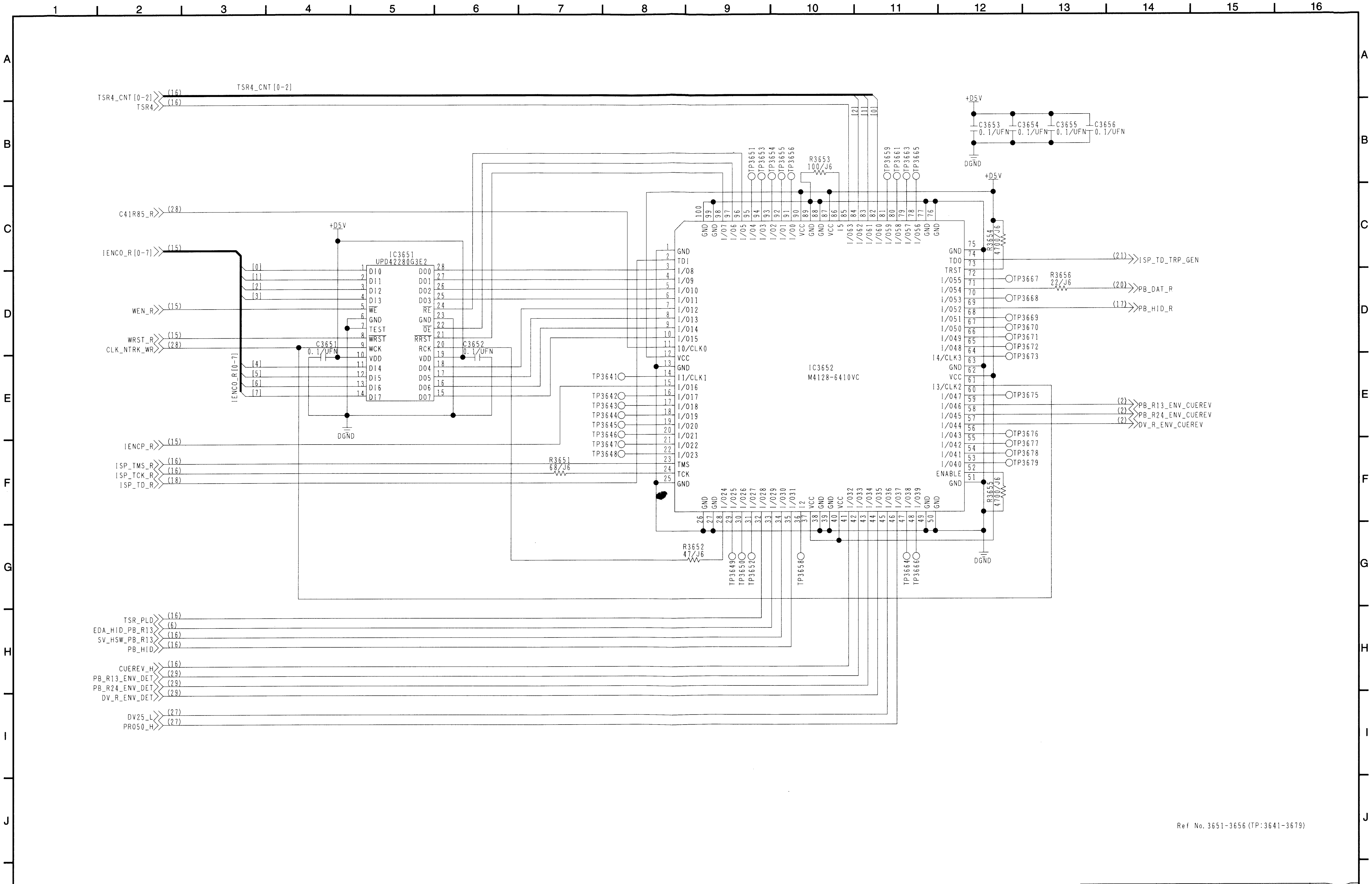
Ref No. 3621-3634

COMPONENT NAME	F3:NON TRK(OUTPUT BUF)	17/31
CIRCUIT BOARD NO.		
VEP83444A		
		SCM50

KR3V92(17/31)


TSR4_CNT[0-2]
TSR4
C41R85_L
IENCO_L[0-7]
WEN_L
WRST_L
CLK_NTRK_WR
IENCP_L
ISP_TMS_L
ISP_TCK_L
ISP_TD_L
TSR_PLD
EDA_HID_PB_L13
SV_HSW_PB_L13
PB_HID
CUEREV_H
PB_L13_ENV_DET
PB_L24_ENV_DET
DV_L_ENV_DET
DV25_L
PR050_H
+D5V
DGND
IC3641
UPD42280G3E2
C3641
0.1/UFN
C3642
0.1/UFN
IC3642
M4128-6410VC
R3641
68/J6
R3642
47/J6
R3643
100/J6
R3644
470/J6
R3645
470/J6
R3646
22/J6
C3643
C3644
C3645
C3646
0.1/UFN
ISP_TD_R
PB_DAT_L
PB_HID_L
PB_NORMAL
PB_L13_ENV_CUEREV
PB_L24_ENV_CUEREV
DV_L_ENV_CUEREV
TP3601
TP3602
TP3603
TP3604
TP3605
TP3606
TP3607
TP3608
TP3609
TP3610
TP3611
TP3612
TP3613
TP3614
TP3615
TP3616
TP3618
TP3619
TP3621
TP3623
TP3624
TP3625
TP3626
TP3627
TP3628
TP3629
TP3630
TP3631
TP3632
TP3633
TP3635
TP3636
TP3637
TP3638
Ref No. 3641-3646(TP:3601-36)

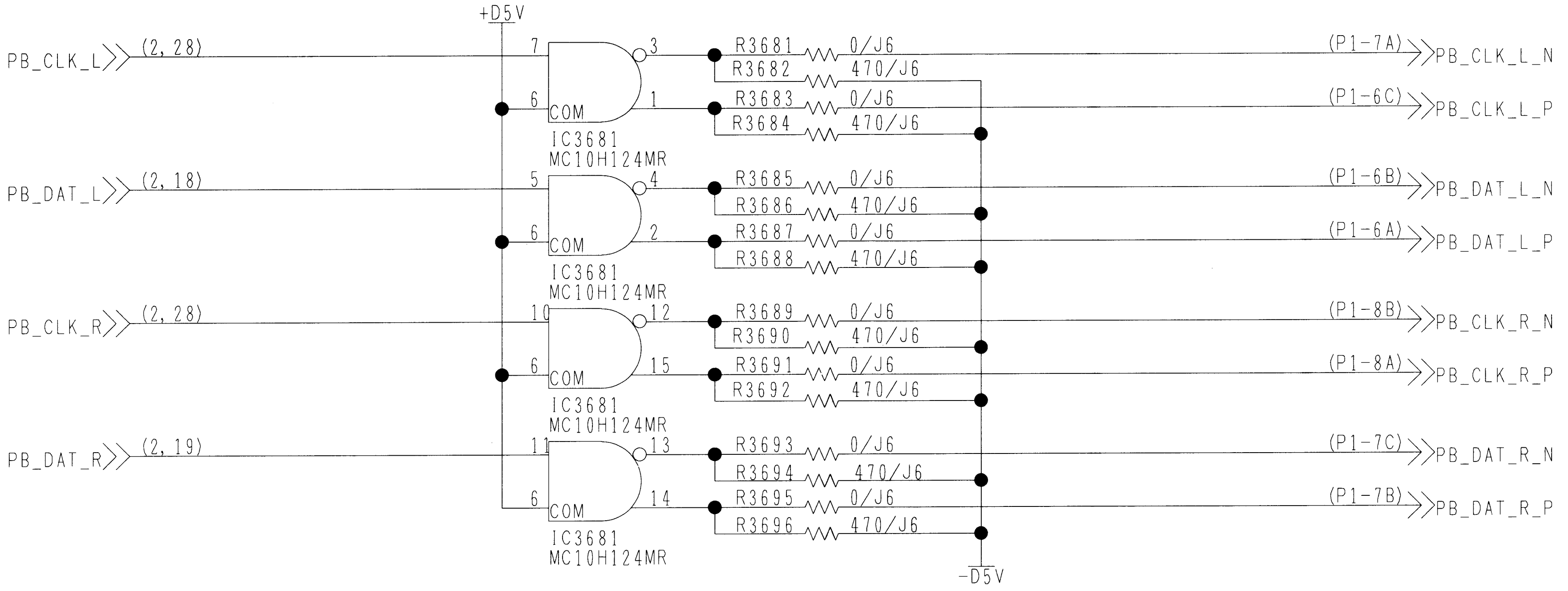
COMPONENT NAME	F3:NON TRK(24/25 MOD.)	18/31
CIRCUIT BOARD NO.		
VEP83444A		
		SCM51

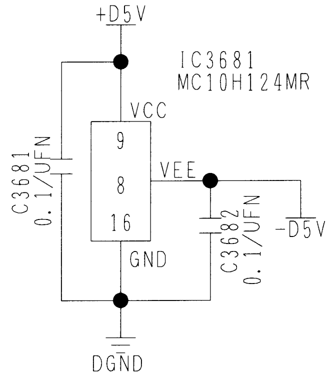

TSR4_CNT[0-2]
TSR4
C41R85_R
IENCO_R[0-7]
WEN_R
WRST_R
CLK_NTRK_WR
IENCP_R
ISP_TMS_R
ISP_TCK_R
ISP_TD_R
TSR_PLD
EDA_HID_PB_R13
SV_HSW_PB_R13
PB_HID
CUEREV_H
PB_R13_ENV_DET
PB_R24_ENV_DET
DV_R_ENV_DET
DV25_L
PRO50_H
IC3651
UPD42280G3E2
IC3652
M4128-6410VC
C3651 0.1/UFN
C3652 0.1/UFN
C3653 0.1/UFN
C3654 0.1/UFN
C3655 0.1/UFN
C3656 0.1/UFN
R3651 68/J6
R3652 47/J6
R3653 100/J6
R3654 470/J6
R3655 470/J6
R3656 22/J6
+D5V
DGND
ISP_TD_TRP_GEN
PB_DAT_R
PB_HID_R
PB_R13_ENV_CUEREV
PB_R24_ENV_CUEREV
DV_R_ENV_CUEREV
TP3641–TP3679

Ref No. 3651-3656 (TP:3641-3679)

COMPONENT NAME	F3:NON TRK(24/25 MOD R)	19/31
CIRCUIT BOARD NO.		
VEP83444A		
		SCN52

KR3V92(19/31)

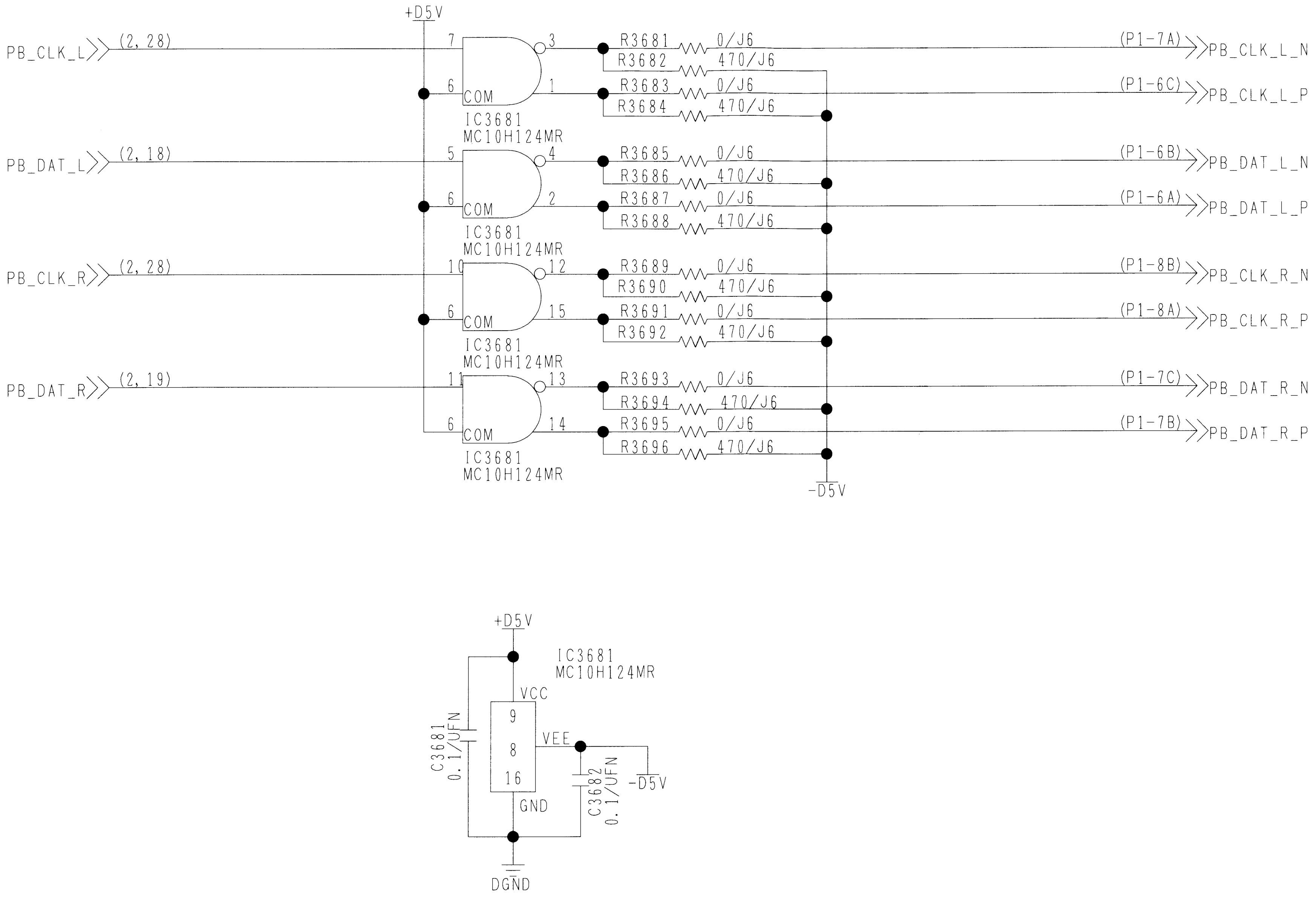

+D5V
PB_CLK_L (2, 28)
PB_DAT_L (2, 18)
PB_CLK_R (2, 28)
PB_DAT_R (2, 19)
7
6
COM
3
1
IC3681
MC10H124MR
5
4
2
10
12
15
11
13
14
R3681 0/J6
R3682 470/J6
R3683 0/J6
R3684 470/J6
R3685 0/J6
R3686 470/J6
R3687 0/J6
R3688 470/J6
R3689 0/J6
R3690 470/J6
R3691 0/J6
R3692 470/J6
R3693 0/J6
R3694 470/J6
R3695 0/J6
R3696 470/J6
(P1-7A) PB_CLK_L_N
(P1-6C) PB_CLK_L_P
(P1-6B) PB_DAT_L_N
(P1-6A) PB_DAT_L_P
(P1-8B) PB_CLK_R_N
(P1-8A) PB_CLK_R_P
(P1-7C) PB_DAT_R_N
(P1-7B) PB_DAT_R_P
-D5V


+D5V
IC3681
MC10H124MR
VCC
9
8
16
VEE
GND
C3681
0.1/UFN
C3682
0.1/UFN
-D5V
DGND

Ref No. 3681-3696

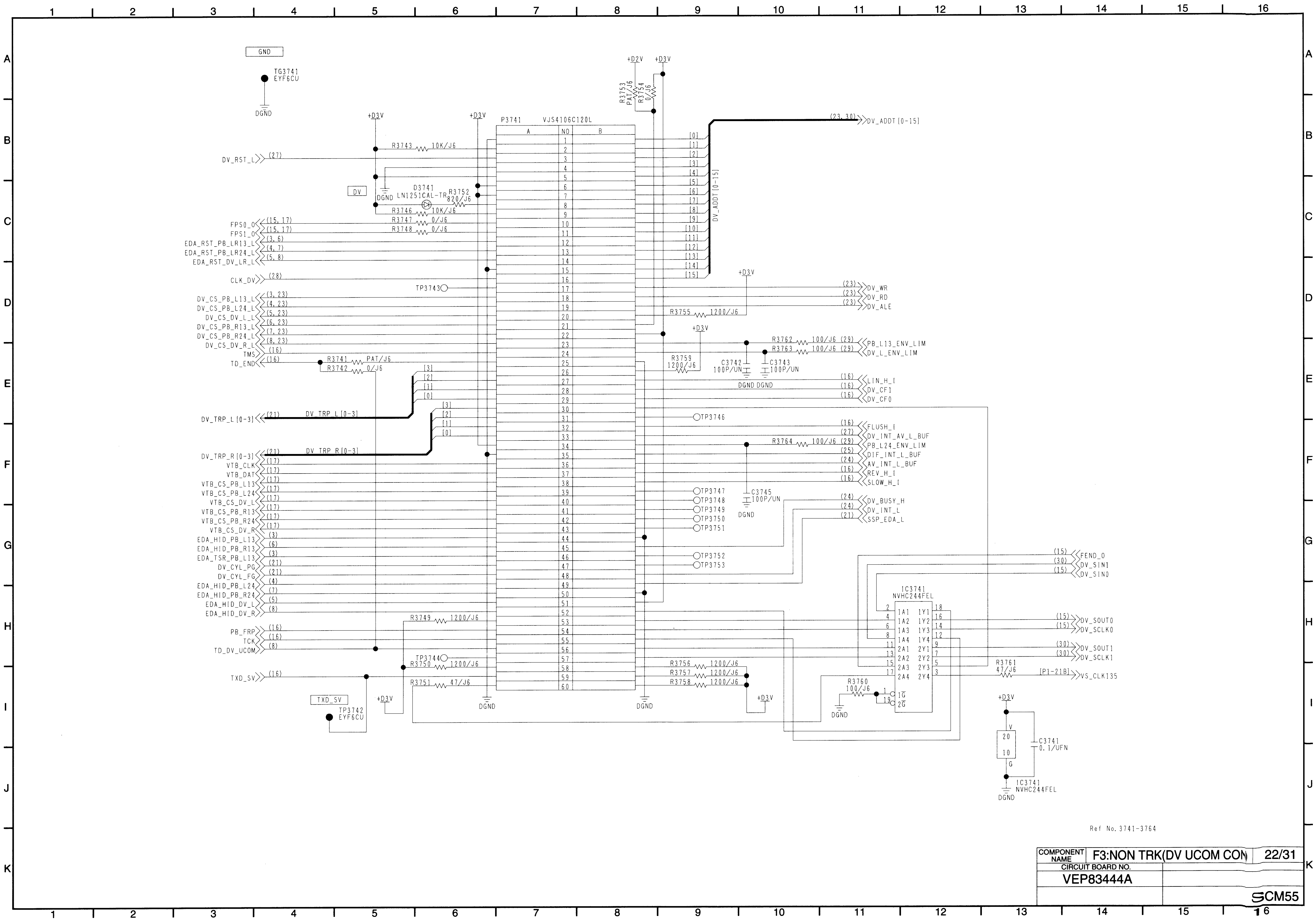
COMPONENT NAME	F3:NON TRK(ECL OUTBUF)	20/31
CIRCUIT BOARD NO. VEP83444A		
		CM53

KR3V92(20/31)


+D5V
PB_CLK_L
(2, 28)
PB_DAT_L
(2, 18)
PB_CLK_R
(2, 28)
PB_DAT_R
(2, 19)
IC3681
MC10H124MR
COM
7
6
3
1
5
4
2
10
12
15
11
13
14
R3681 0/J6
R3682 470/J6
R3683 0/J6
R3684 470/J6
R3685 0/J6
R3686 470/J6
R3687 0/J6
R3688 470/J6
R3689 0/J6
R3690 470/J6
R3691 0/J6
R3692 470/J6
R3693 0/J6
R3694 470/J6
R3695 0/J6
R3696 470/J6
-D5V
(P1-7A) PB_CLK_L_N
(P1-6C) PB_CLK_L_P
(P1-6B) PB_DAT_L_N
(P1-6A) PB_DAT_L_P
(P1-8B) PB_CLK_R_N
(P1-8A) PB_CLK_R_P
(P1-7C) PB_DAT_R_N
(P1-7B) PB_DAT_R_P
+D5V
IC3681
MC10H124MR
VCC
9
8
16
VEE
GND
C3681
0.1/UFN
C3682
0.1/UFN
-D5V
DGND

Ref No. 3681-3696

COMPONENT NAME	F3:NON TRK(TRP GEN)	21/3
CIRCUIT BOARD NO.		
VEP83444A		
		SCM54

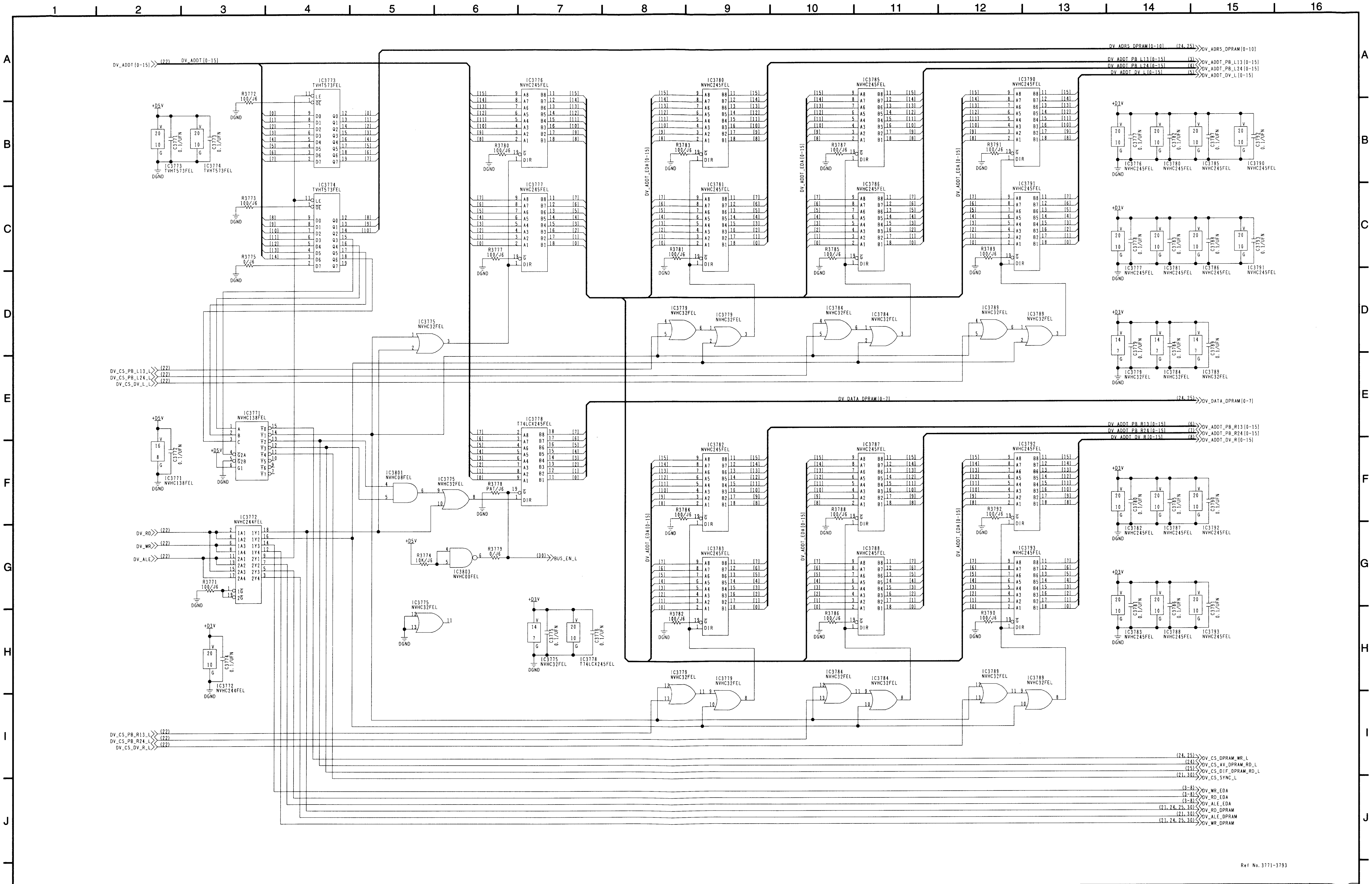


GND
TG3741
EYF6CU
DGND
P3741 VJS4106C120L
+D3V
+D2V
R3753 PAT/J6
R3754 0/J6
R3743 10K/J6
DV_RST_L (27)
DV
D3741 LN1251CAL-TR
R3752 820/J6
R3746 10K/J6
R3747 0/J6
R3748 0/J6
FPS0_O (15, 17)
FPS1_O (15, 17)
EDA_RST_PB_LR13_L (3, 6)
EDA_RST_PB_LR24_L (4, 7)
EDA_RST_DV_LR_L (5, 8)
CLK_DV (28)
TP3743
DV_CS_PB_L13_L (3, 23)
DV_CS_PB_L24_L (4, 23)
DV_CS_DV_L_L (5, 23)
DV_CS_PB_R13_L (6, 23)
DV_CS_PB_R24_L (7, 23)
DV_CS_DV_R_L (8, 23)
TMS (16)
TD_END (16)
R3741 PAT/J6
R3742 0/J6
DV_TRP_L[0-3] (21)
DV_TRP_R[0-3] (21)
VTB_CLK (17)
VTB_DAT (17)
VTB_CS_PB_L13 (17)
VTB_CS_PB_L24 (17)
VTB_CS_DV_L (17)
VTB_CS_PB_R13 (17)
VTB_CS_PB_R24 (17)
VTB_CS_DV_R (17)
EDA_HID_PB_L13 (3)
EDA_HID_PB_R13 (6)
EDA_TSR_PB_L13 (3)
DV_CYL_PG (21)
DV_CYL_FG (21)
EDA_HID_PB_L24 (4)
EDA_HID_PB_R24 (7)
EDA_HID_DV_L (5)
EDA_HID_DV_R (8)
PB_FRP (16)
TCK (16)
TD_DV_UCOM (8)
TXD_SV (16)
R3749 1200/J6
TP3744
R3750 1200/J6
R3751 47/J6
TXD_SV
TP3742
EYF6CU
(23, 30) DV_ADDT[0-15]
DV_ADDT[0-15]
(23) DV_WR
(23) DV_RD
(23) DV_ALE
R3755 1200/J6
R3762 100/J6 (29) PB_L13_ENV_LIM
R3763 100/J6 (29) DV_L_ENV_LIM
R3759 1200/J6
C3742 100P/UN
C3743 100P/UN
(16) LIN_H_I
(16) DV_CF1
(16) DV_CF0
TP3746
(16) FLUSH_I
(27) DV_INT_AV_L_BUF
R3764 100/J6 (29) PB_L24_ENV_LIM
(25) DIF_INT_L_BUF
(24) AV_INT_L_BUF
(16) REV_H_I
(16) SLOW_H_I
TP3747
TP3748
TP3749
TP3750
TP3751
C3745 100P/UN
(24) DV_BUSY_H
(24) DV_INT_L
(21) SSP_EDA_L
TP3752
TP3753
(15) FEND_O
(30) DV_SIN1
(15) DV_SIN0
IC3741 NVHC244FEL
(15) DV_SOUT0
(15) DV_SCLK0
(30) DV_SOUT1
(30) DV_SCLK1
R3761 47/J6 [P1-21B] VS_CLK135
R3756 1200/J6
R3757 1200/J6
R3758 1200/J6
R3760 100/J6
C3741 0.1/UFN
IC3741 NVHC244FEL
DGND

Ref No. 3741-3764

COMPONENT NAME	F3:NON TRK(DV UCOM CON	22/31
CIRCUIT BOARD NO.		
VEP83444A		SCM55

KR3V92(22/31)

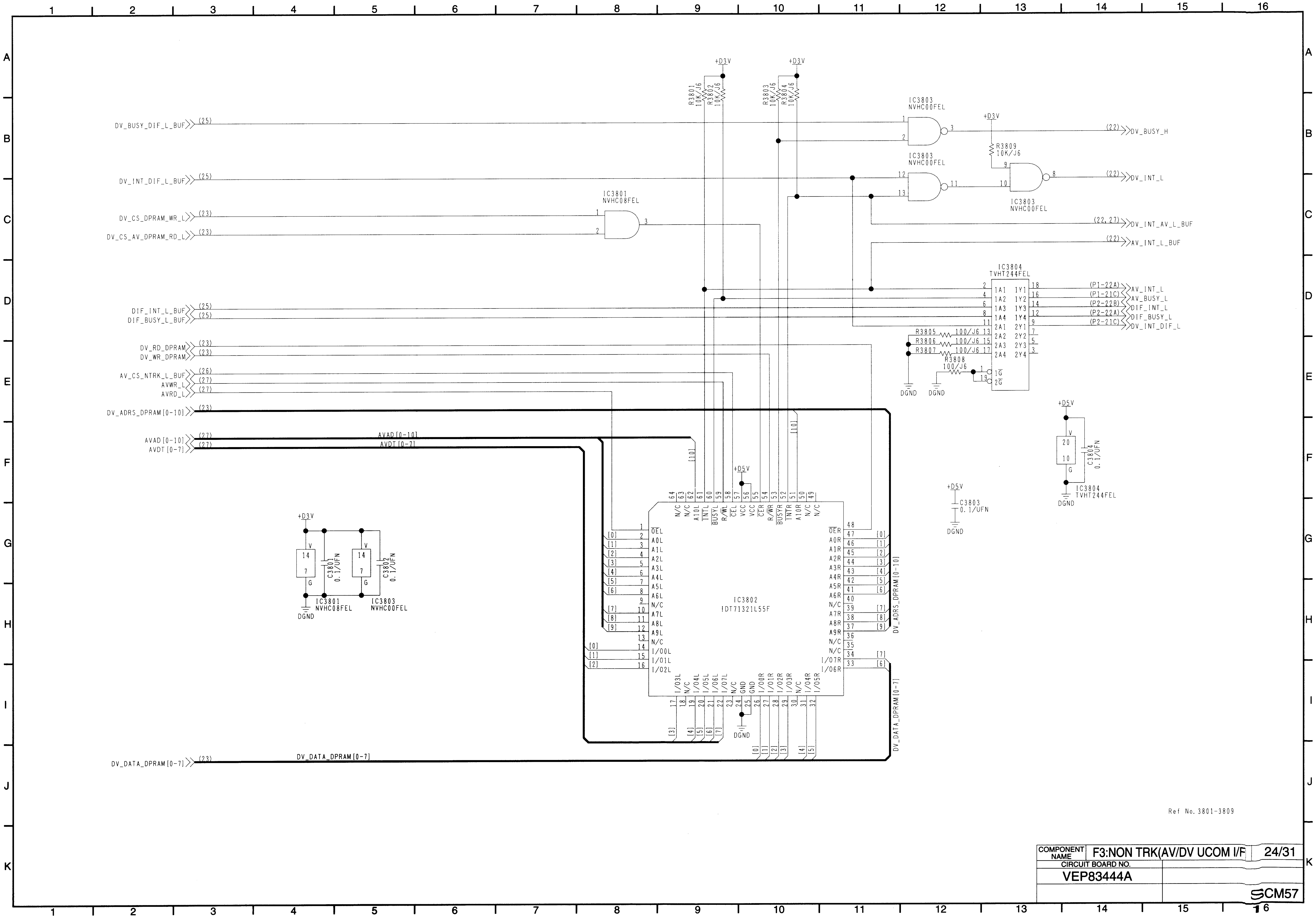

DV_ADDT[0-15]
DV_ADRS_DPRAM[0-10]
DV_ADDT_PB_L13[0-15]
DV_ADDT_PB_L24[0-15]
DV_ADDT_DV_L[0-15]
DV_DATA_DPRAM[0-7]
DV_ADDT_PB_R13[0-15]
DV_ADDT_PB_R24[0-15]
DV_ADDT_DV_R[0-15]
DV_CS_PB_L13_L
DV_CS_PB_L24_L
DV_CS_DV_L_L
DV_RD
DV_WR
DV_ALE
DV_CS_PB_R13_L
DV_CS_PB_R24_L
DV_CS_DV_R_L
BUS_EN_L
DV_ADDT_EDA[0-15]
(24, 25) DV_CS_DPRAM_WR_L
(24) DV_CS_AV_DPRAM_RD_L
(25) DV_CS_DIF_DPRAM_RD_L
(21, 30) DV_CS_SYNC_L
(3-8) DV_WR_EDA
(3-8) DV_RD_EDA
(3-8) DV_ALE_EDA
(21, 24, 25, 30) DV_RD_DPRAM
(21, 30) DV_ALE_DPRAM
(21, 24, 25, 30) DV_WR_DPRAM
IC3771 NVHC138FEL
IC3772 NVHC244FEL
IC3773 TVHT573FEL
IC3774 TVHT573FEL
IC3775 NVHC32FEL
IC3776 NVHC245FEL
IC3777 NVHC245FEL
IC3778 T74LCX245FEL
IC3779 NVHC32FEL
IC3780 NVHC245FEL
IC3781 NVHC245FEL
IC3782 NVHC245FEL
IC3783 NVHC245FEL
IC3784 NVHC32FEL
IC3785 NVHC245FEL
IC3786 NVHC245FEL
IC3787 NVHC245FEL
IC3788 NVHC245FEL
IC3789 NVHC32FEL
IC3790 NVHC245FEL
IC3791 NVHC245FEL
IC3792 NVHC245FEL
IC3793 NVHC245FEL
IC3801 NVHC08FEL
IC3803 NVHC00FEL
+D5V
+D3V
DGND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

Ref No. 3771-3793

COMPONENT NAME	F3:NON TRK(DV UCOM BUF)	23/31
CIRCUIT BOARD NO.		
VEP83444A		

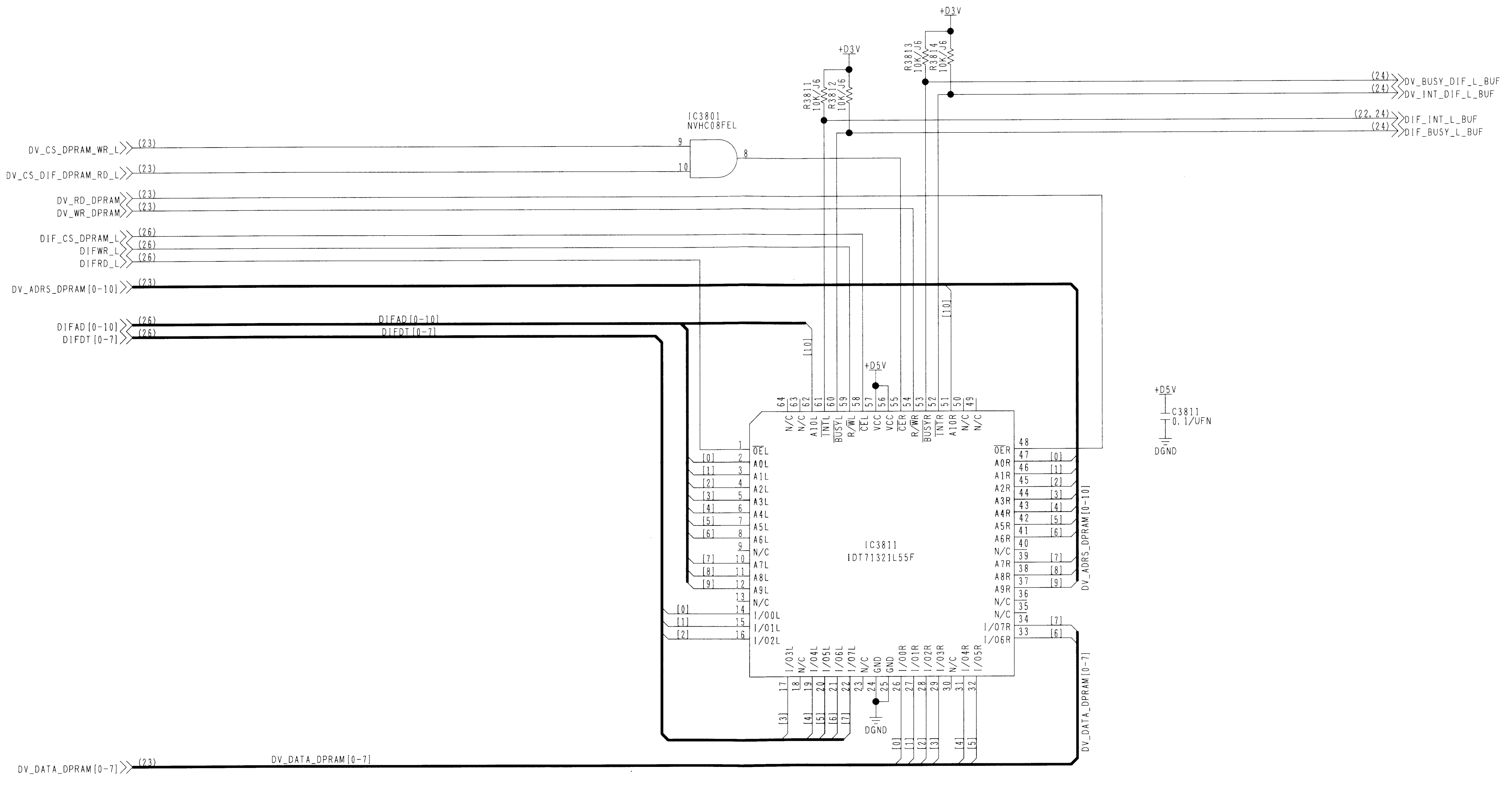
SCM56

KR3V92(23/31)


DV_BUSY_DIF_L_BUF (25)
DV_INT_DIF_L_BUF (25)
DV_CS_DPRAM_WR_L (23)
DV_CS_AV_DPRAM_RD_L (23)
DIF_INT_L_BUF (25)
DIF_BUSY_L_BUF (25)
DV_RD_DPRAM (23)
DV_WR_DPRAM (23)
AV_CS_NTRK_L_BUF (26)
AVWR_L (27)
AVRD_L (27)
DV_ADRS_DPRAM[0-10] (23)
AVAD[0-10] (27)
AVDT[0-7] (27)
AVAD[0-10]
AVDT[0-7]
DV_DATA_DPRAM[0-7] (23)
DV_DATA_DPRAM[0-7]
+D3V
R3801 10K/J6
R3802 10K/J6
R3803 10K/J6
R3804 10K/J6
IC3803 NVHC00FEL
IC3801 NVHC08FEL
R3809 10K/J6
(22) DV_BUSY_H
(22) DV_INT_L
(22, 27) DV_INT_AV_L_BUF
(22) AV_INT_L_BUF
IC3804 TVHT244FEL
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4 1G 2G
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
(P1-22A) AV_INT_L
(P1-21C) AV_BUSY_L
(P2-22B) DIF_INT_L
(P2-22A) DIF_BUSY_L
(P2-21C) DV_INT_DIF_L
R3805 100/J6
R3806 100/J6
R3807 100/J6
R3808 100/J6
DGND
+D5V
C3803 0.1/UFN
C3804 0.1/UFN
IC3804 TVHT244FEL
C3801 0.1/UFN
C3802 0.1/UFN
IC3801 NVHC08FEL
IC3803 NVHC00FEL
IC3802 IDT71321L55F
OEL A0L A1L A2L A3L A4L A5L A6L N/C A7L A8L A9L N/C I/O0L I/O1L I/O2L
OER A0R A1R A2R A3R A4R A5R A6R N/C A7R A8R A9R N/C N/C I/O7R I/O6R
N/C N/C A10L INTL BUSYL R/WL CEL VCC VCC CER R/WR BUSYR INTR A10R N/C N/C
I/O3L N/C I/O4L I/O5L I/O6L I/O7L N/C GND GND I/O0R I/O1R I/O2R I/O3R N/C I/O4R I/O5R
DV_ADRS_DPRAM[0-10]
DV_DATA_DPRAM[0-7]
Ref No. 3801-3809

KR3V92(24/31)

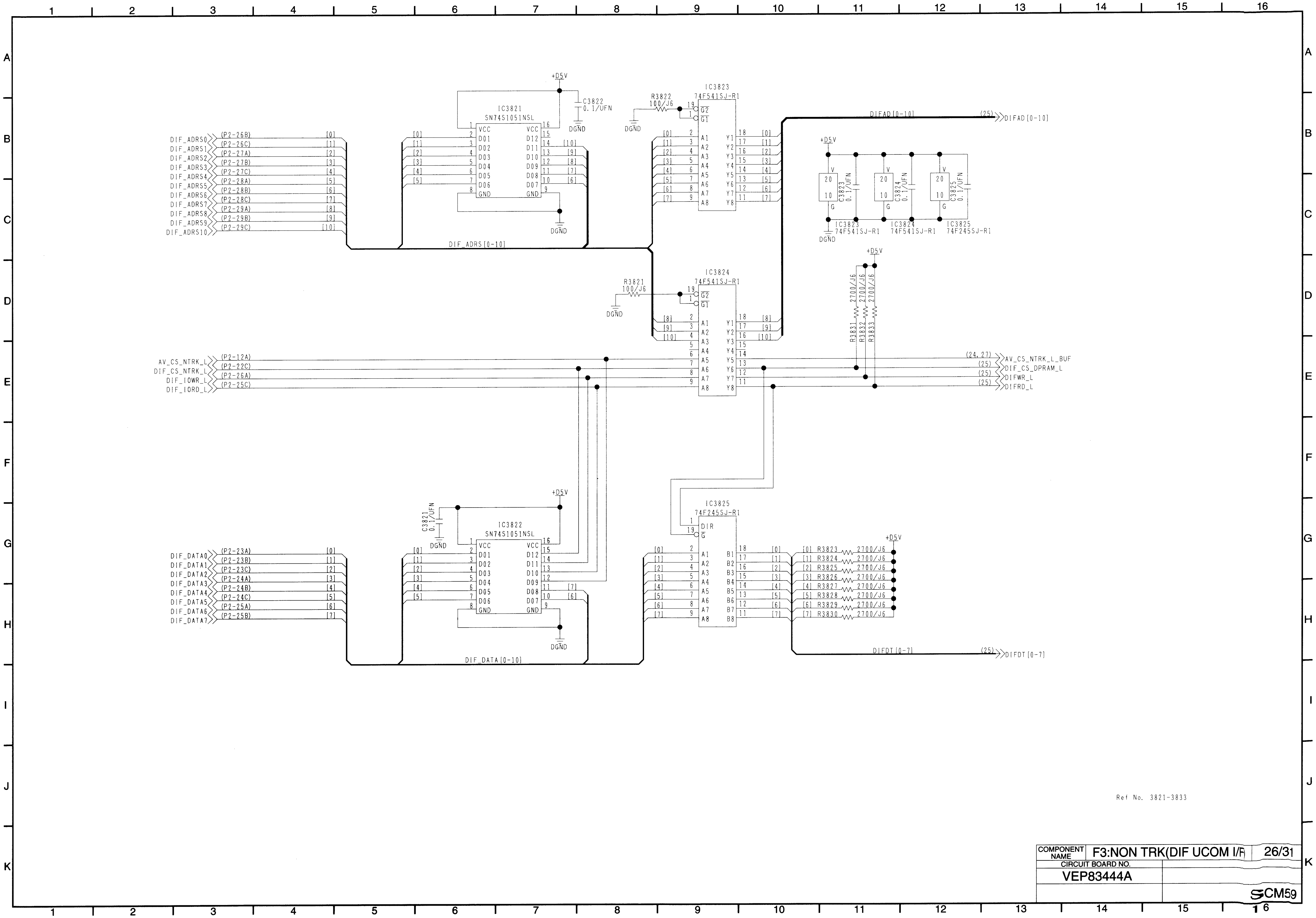
COMPONENT NAME	F3:NON TRK(AV/DV UCOM I/F	24/31
CIRCUIT BOARD NO.		
VEP83444A		SCM57


DV_CS_DPRAM_WR_L (23)
DV_CS_DIF_DPRAM_RD_L (23)
DV_RD_DPRAM (23)
DV_WR_DPRAM (23)
DIF_CS_DPRAM_L (26)
DIFWR_L (26)
DIFRD_L (26)
DV_ADRS_DPRAM[0-10] (23)
DIFAD[0-10] (26)
DIFDT[0-7] (26)
DIFAD[0-10]
DIFDT[0-7]
DV_DATA_DPRAM[0-7] (23)
DV_DATA_DPRAM[0-7]
IC3801
NVHC08FEL
9
10
8
+D3V
R3811 10K/J6
R3812 10K/J6
+D3V
R3813 10K/J6
R3814 10K/J6
(24) DV_BUSY_DIF_L_BUF
(24) DV_INT_DIF_L_BUF
(22, 24) DIF_INT_L_BUF
(24) DIF_BUSY_L_BUF
[10]
[10]
+D5V
IC3811
IDT71321L55F
64 N/C
63 N/C
62 A10L
61 INTL
60 BUSYL
59 R/WL
58 CEL
57 VCC
56 VCC
55 CER
54 R/WR
53 BUSYR
52 INTR
51 A10R
50 N/C
49 N/C
1 OEL
2 A0L
3 A1L
4 A2L
5 A3L
6 A4L
7 A5L
8 A6L
9 N/C
10 A7L
11 A8L
12 A9L
13 N/C
14 I/O0L
15 I/O1L
16 I/O2L
17 I/O3L
18 N/C
19 I/O4L
20 I/O5L
21 I/O6L
22 I/O7L
23 N/C
24 GND
25 GND
26 I/O0R
27 I/O1R
28 I/O2R
29 I/O3R
30 N/C
31 I/O4R
32 I/O5R
33 I/O6R
34 I/O7R
35 N/C
36 N/C
37 A9R
38 A8R
39 A7R
40 N/C
41 A6R
42 A5R
43 A4R
44 A3R
45 A2R
46 A1R
47 A0R
48 OER
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9]
DV_ADRS_DPRAM[0-10]
DV_DATA_DPRAM[0-7]
DGND
+D5V
C3811
0.1/UFN
DGND

Ref No. 3811-3814

COMPONENT NAME	F3:NON TRK(DIF/DV UCOM I/F)	25/31
CIRCUIT BOARD NO.		
VEP83444A		
	SCM58	

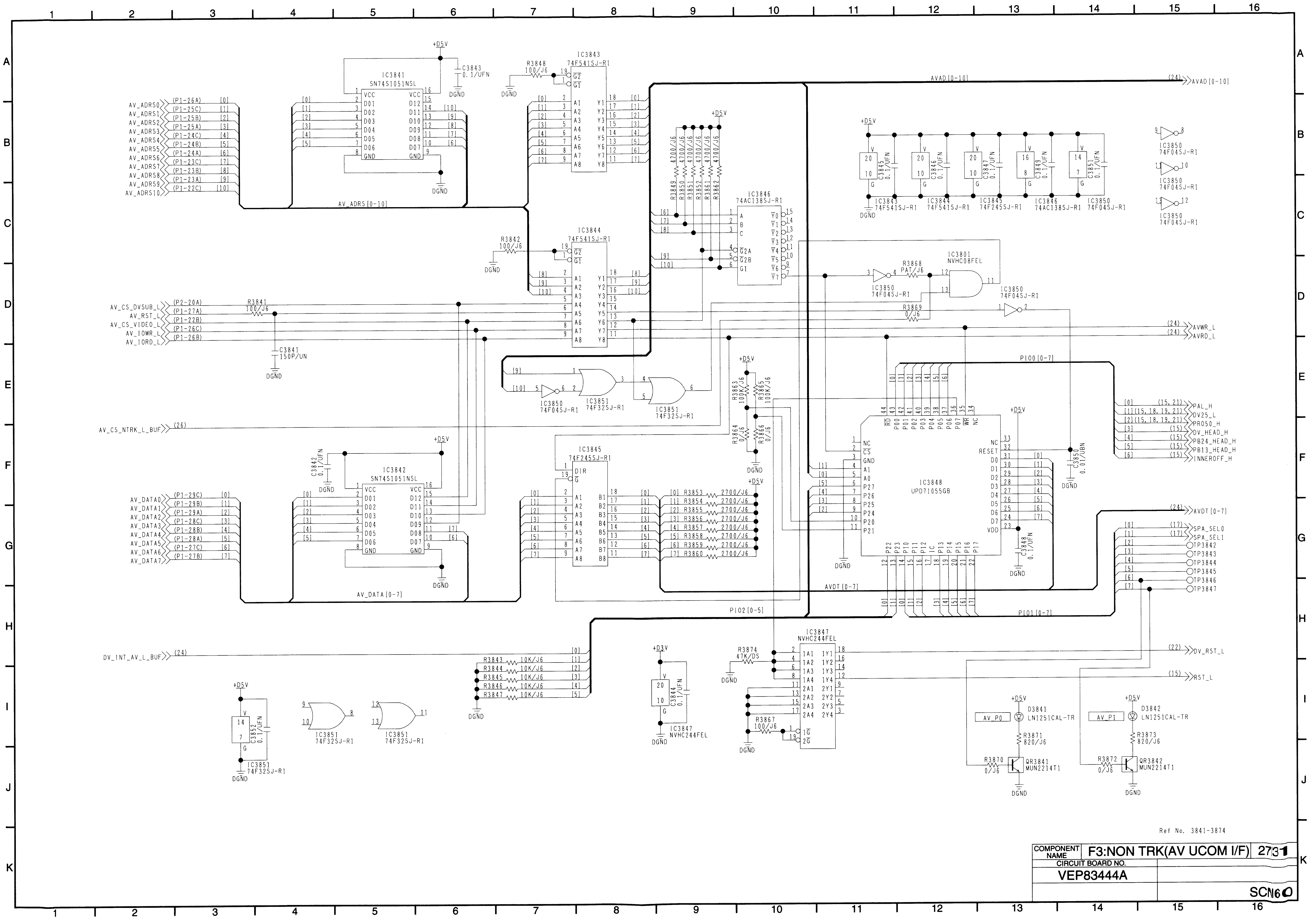
KR3V92(25/31)


IC3821
SN74S1051NSL
C3822
0.1/UFN
+D5V
DGND
IC3823
74F541SJ-R1
R3822
100/J6
DIFAD[0-10]
(25)
DIFAD[0-10]
IC3824
74F541SJ-R1
R3821
100/J6
C3823
C3824
C3825
74F245SJ-R1
R3831
R3832
R3833
2700/J6
DIF_ADRS0
DIF_ADRS1
DIF_ADRS2
DIF_ADRS3
DIF_ADRS4
DIF_ADRS5
DIF_ADRS6
DIF_ADRS7
DIF_ADRS8
DIF_ADRS9
DIF_ADRS10
DIF_ADRS[0-10]
AV_CS_NTRK_L
DIF_CS_NTRK_L
DIF_IOWR_L
DIF_IORD_L
(24,27)
AV_CS_NTRK_L_BUF
DIF_CS_DPRAM_L
DIFWR_L
DIFRD_L
IC3825
74F245SJ-R1
IC3822
SN74S1051NSL
C3821
0.1/UFN
DIF_DATA0
DIF_DATA1
DIF_DATA2
DIF_DATA3
DIF_DATA4
DIF_DATA5
DIF_DATA6
DIF_DATA7
DIF_DATA[0-10]
R3823
R3824
R3825
R3826
R3827
R3828
R3829
R3830
DIFDT[0-7]
Ref No. 3821-3833

COMPONENT NAME	F3:NON TRK(DIF UCOM I/F)	26/31
CIRCUIT BOARD NO.		
VEP83444A		

SCM59

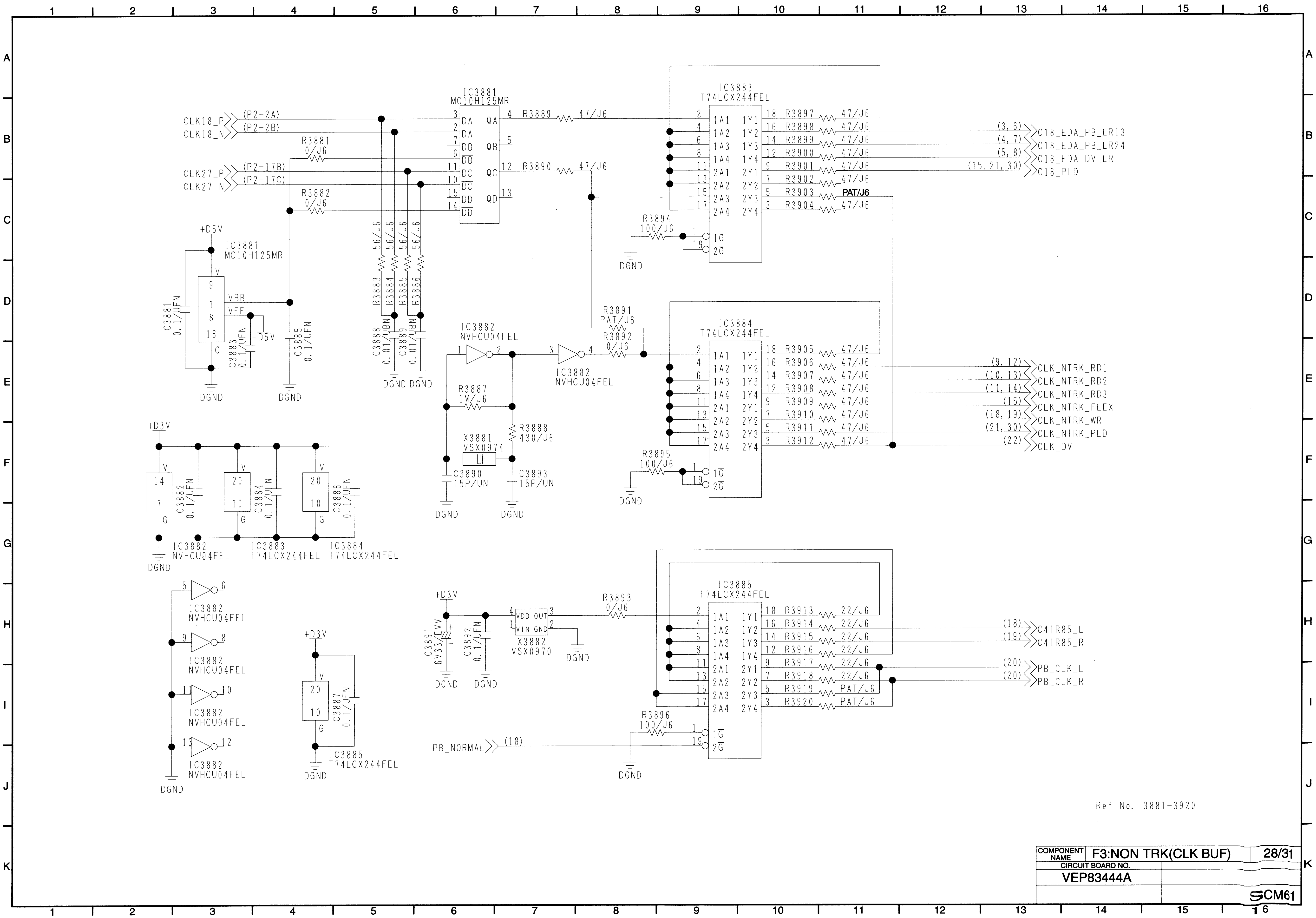
KR3V92(26/31)


IC3841
SN74S1051NSL
IC3842
SN74S1051NSL
IC3843
74F541SJ-R1
IC3844
74F541SJ-R1
IC3845
74F245SJ-R1
IC3846
74AC138SJ-R1
IC3847
NVHC244FEL
IC3848
UPD71055GB
IC3801
NVHC08FEL
IC3850
74F04SJ-R1
IC3851
74F32SJ-R1
AV_ADRS0
AV_ADRS1
AV_ADRS2
AV_ADRS3
AV_ADRS4
AV_ADRS5
AV_ADRS6
AV_ADRS7
AV_ADRS8
AV_ADRS9
AV_ADRS10
AV_ADRS[0-10]
AV_CS_DVSUB_L
AV_RST_L
AV_CS_VIDEO_L
AV_IOWR_L
AV_IORD_L
AV_CS_NTRK_L_BUF
AV_DATA0
AV_DATA1
AV_DATA2
AV_DATA3
AV_DATA4
AV_DATA5
AV_DATA6
AV_DATA7
AV_DATA[0-7]
DV_INT_AV_L_BUF
AVAD[0-10]
AVWR_L
AVRD_L
PIO0[0-7]
PAL_H
DV25_L
PRO50_H
DV_HEAD_H
PB24_HEAD_H
PB13_HEAD_H
INNEROFF_H
AVDT[0-7]
SPA_SEL0
SPA_SEL1
TP3842
TP3843
TP3844
TP3845
TP3846
TP3847
PIO1[0-7]
PIO2[0-5]
DV_RST_L
RST_L
AV_P0
AV_P1
D3841
LN1251CAL-TR
D3842
LN1251CAL-TR
QR3841
MUN2214T1
QR3842
MUN2214T1
+D5V
+D3V
DGND

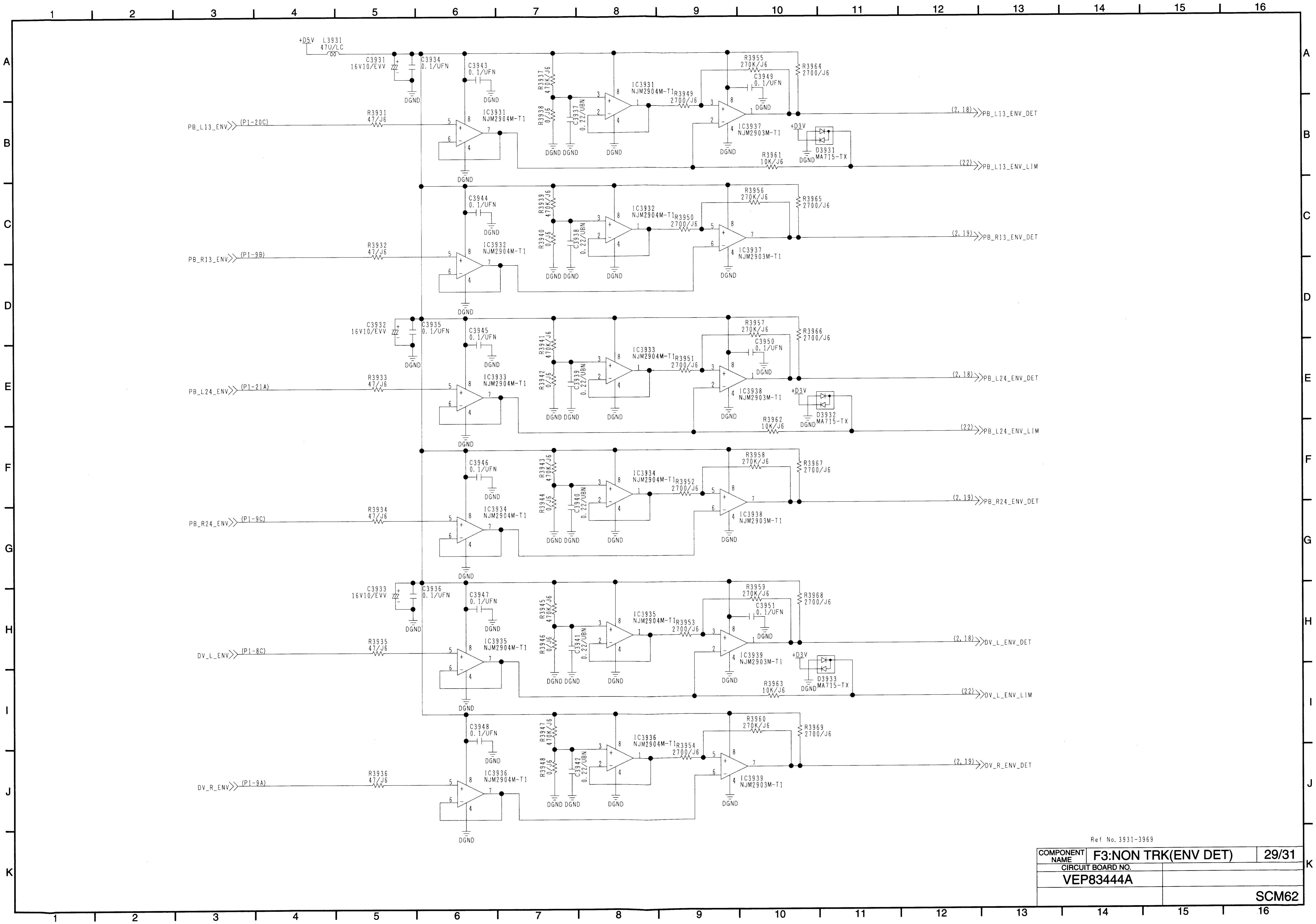
Ref No. 3841-3874

COMPONENT NAME	F3:NON TRK(AV UCOM I/F)	27/31
CIRCUIT BOARD NO.		
VEP83444A		
		SCN6O

KR3V92(27/31)


IC3881
MC10H125MR
CLK18_P
CLK18_N
(P2-2A)
(P2-2B)
CLK27_P
CLK27_N
(P2-17B)
(P2-17C)
R3881
0/J6
R3882
0/J6
DA
DB
DC
DD
QA
QB
QC
QD
R3889 47/J6
R3890 47/J6
R3883 56/J6
R3884 56/J6
R3885 56/J6
R3886 56/J6
C3888 0.01/UBN
C3889 0.01/UBN
DGND
+D5V
IC3881
MC10H125MR
VBB
VEE
-D5V
C3881 0.1/UFN
C3883 0.1/UFN
C3885 0.1/UFN
IC3883
T74LCX244FEL
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
1G
2G
R3897 47/J6
R3898 47/J6
R3899 47/J6
R3900 47/J6
R3901 47/J6
R3902 47/J6
R3903 PAT/J6
R3904 47/J6
R3894 100/J6
(3, 6) C18_EDA_PB_LR13
(4, 7) C18_EDA_PB_LR24
(5, 8) C18_EDA_DV_LR
(15, 21, 30) C18_PLD
IC3882
NVHCU04FEL
R3887 1M/J6
R3888 430/J6
X3881 VSX0974
C3890 15P/UN
C3893 15P/UN
R3891 PAT/J6
R3892 0/J6
IC3884
T74LCX244FEL
R3905 47/J6
R3906 47/J6
R3907 47/J6
R3908 47/J6
R3909 47/J6
R3910 47/J6
R3911 47/J6
R3912 47/J6
R3895 100/J6
(9, 12) CLK_NTRK_RD1
(10, 13) CLK_NTRK_RD2
(11, 14) CLK_NTRK_RD3
(15) CLK_NTRK_FLEX
(18, 19) CLK_NTRK_WR
(21, 30) CLK_NTRK_PLD
(22) CLK_DV
+D3V
C3882 0.1/UFN
C3884 0.1/UFN
C3886 0.1/UFN
IC3882 NVHCU04FEL
IC3883 T74LCX244FEL
IC3884 T74LCX244FEL
C3891 6V33/EVV
C3892 0.1/UFN
VDD OUT
VIN GND
X3882 VSX0970
R3893 0/J6
IC3885
T74LCX244FEL
R3913 22/J6
R3914 22/J6
R3915 22/J6
R3916 22/J6
R3917 22/J6
R3918 22/J6
R3919 PAT/J6
R3920 PAT/J6
R3896 100/J6
(18) C41R85_L
(19) C41R85_R
(20) PB_CLK_L
(20) PB_CLK_R
PB_NORMAL (18)
C3887 0.1/UFN
IC3885 T74LCX244FEL
Ref No. 3881-3920

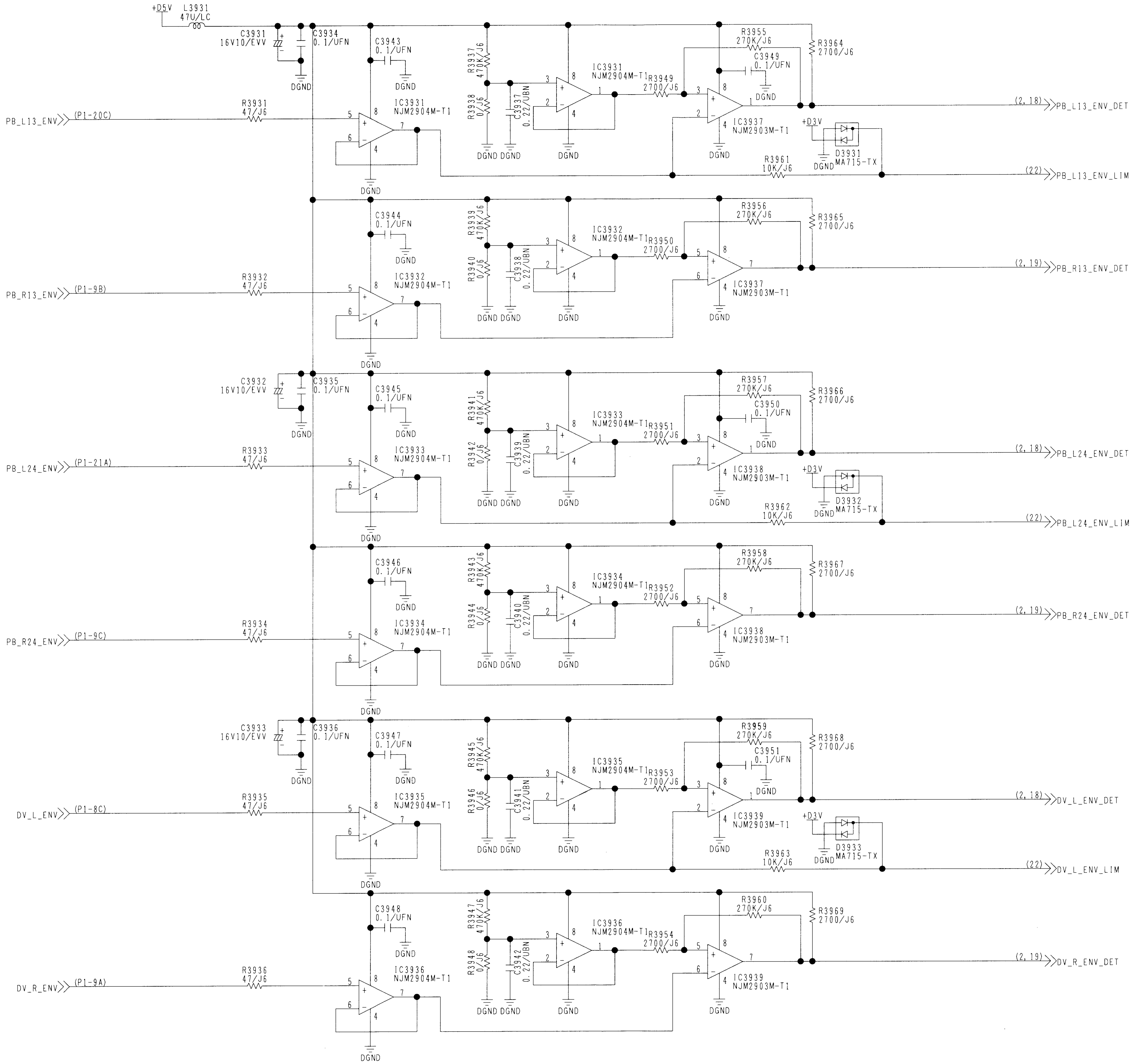
COMPONENT NAME F3:NON TRK(CLK BUF) 28/31
CIRCUIT BOARD NO.
VEP83444A
SCM61


+D5V
L3931
47U/LC
C3931
16V10/EVV
C3934
0.1/UFN
C3943
0.1/UFN
DGND
R3937
470K/J6
R3938
0/J6
C3937
0.22/UBN
IC3931
NJM2904M-T1
R3949
2700/J6
R3955
270K/J6
C3949
0.1/UFN
R3964
2700/J6
IC3937
NJM2903M-T1
+D3V
D3931
MA715-TX
R3961
10K/J6
PB_L13_ENV
(P1-20C)
R3931
47/J6
(2,18)
PB_L13_ENV_DET
(22)
PB_L13_ENV_LIM
C3944
0.1/UFN
R3939
470K/J6
R3940
0/J6
C3938
0.22/UBN
IC3932
NJM2904M-T1
R3950
2700/J6
R3956
270K/J6
R3965
2700/J6
PB_R13_ENV
(P1-9B)
R3932
47/J6
(2,19)
PB_R13_ENV_DET
C3932
16V10/EVV
C3935
0.1/UFN
C3945
0.1/UFN
R3941
470K/J6
R3942
0/J6
C3939
0.22/UBN
IC3933
NJM2904M-T1
R3951
2700/J6
R3957
270K/J6
C3950
0.1/UFN
R3966
2700/J6
IC3938
NJM2903M-T1
D3932
MA715-TX
R3962
10K/J6
PB_L24_ENV
(P1-21A)
R3933
47/J6
(2,18)
PB_L24_ENV_DET
(22)
PB_L24_ENV_LIM
C3946
0.1/UFN
R3943
470K/J6
R3944
0/J6
C3940
0.22/UBN
IC3934
NJM2904M-T1
R3952
2700/J6
R3958
270K/J6
R3967
2700/J6
PB_R24_ENV
(P1-9C)
R3934
47/J6
(2,19)
PB_R24_ENV_DET
C3933
16V10/EVV
C3936
0.1/UFN
C3947
0.1/UFN
R3945
470K/J6
R3946
0/J6
C3941
0.22/UBN
IC3935
NJM2904M-T1
R3953
2700/J6
R3959
270K/J6
C3951
0.1/UFN
R3968
2700/J6
IC3939
NJM2903M-T1
D3933
MA715-TX
R3963
10K/J6
DV_L_ENV
(P1-8C)
R3935
47/J6
(2,18)
DV_L_ENV_DET
(22)
DV_L_ENV_LIM
C3948
0.1/UFN
R3947
470K/J6
R3948
0/J6
C3942
0.22/UBN
IC3936
NJM2904M-T1
R3954
2700/J6
R3960
270K/J6
R3969
2700/J6
DV_R_ENV
(P1-9A)
R3936
47/J6
(2,19)
DV_R_ENV_DET
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

Ref No. 3931-3969

COMPONENT NAME	F3:NON TRK(ENV DET)	29/31
CIRCUIT BOARD NO.		
VEP83444A		
		SCM62

KR3V92(30/31)

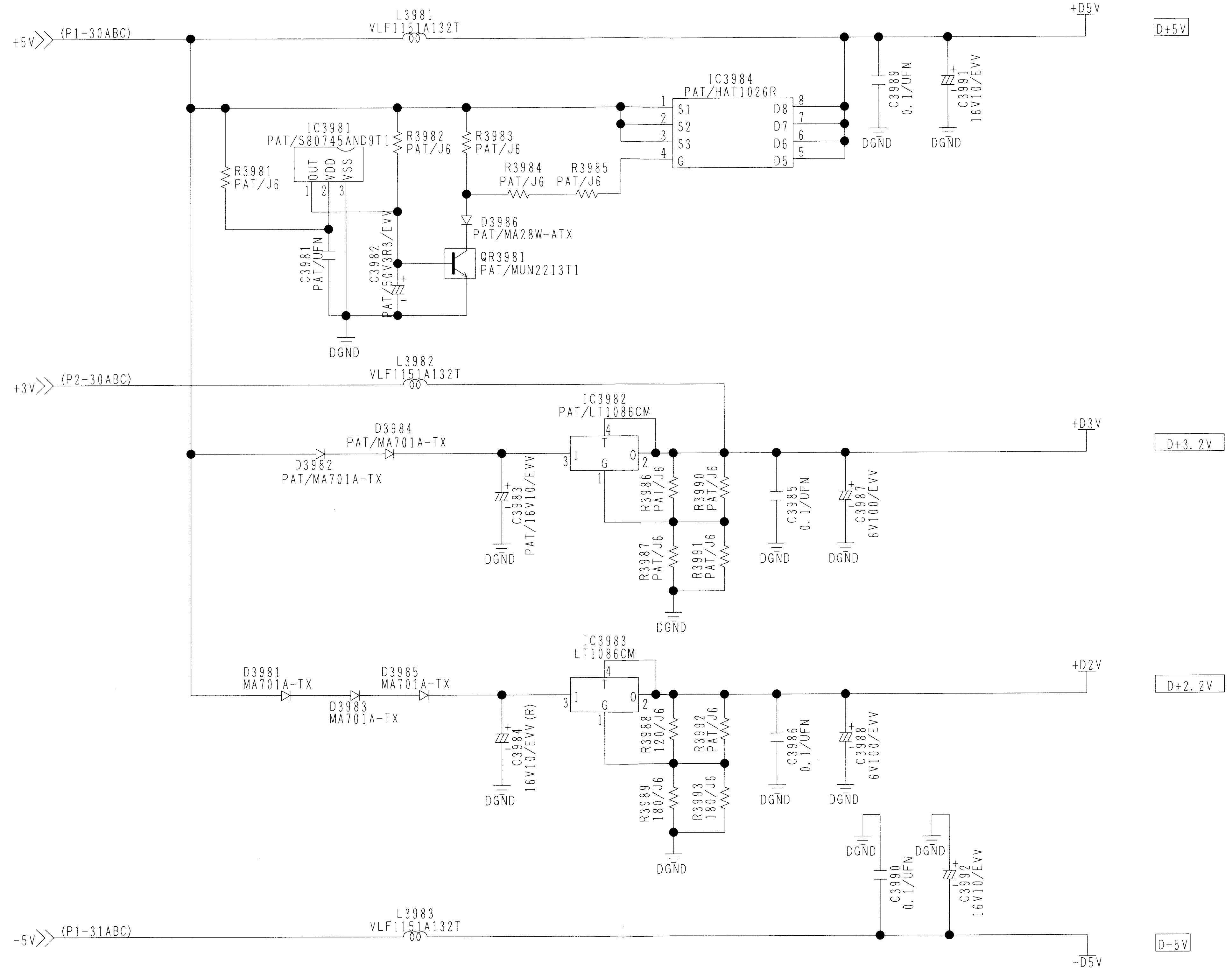


+D5V
L3931
47U/LC
C3931
16V10/EVV
C3934
0.1/UFN
C3943
0.1/UFN
DGND
R3931
47/J6
PB_L13_ENV
(P1-20C)
IC3931
NJM2904M-T1
R3937
470K/J6
R3938
0/J6
C3937
0.22/UBN
R3949
2700/J6
R3955
270K/J6
C3949
0.1/UFN
R3964
2700/J6
IC3937
NJM2903M-T1
+D3V
D3931
MA715-TX
R3961
10K/J6
(2,18)
PB_L13_ENV_DET
(22)
PB_L13_ENV_LIM
C3944
0.1/UFN
R3932
47/J6
PB_R13_ENV
(P1-9B)
IC3932
NJM2904M-T1
R3939
470K/J6
R3940
0/J6
C3938
0.22/UBN
R3950
2700/J6
R3956
270K/J6
R3965
2700/J6
(2,19)
PB_R13_ENV_DET
C3932
16V10/EVV
C3935
0.1/UFN
C3945
0.1/UFN
R3933
47/J6
PB_L24_ENV
(P1-21A)
IC3933
NJM2904M-T1
R3941
470K/J6
R3942
0/J6
C3939
0.22/UBN
R3951
2700/J6
R3957
270K/J6
C3950
0.1/UFN
R3966
2700/J6
IC3938
NJM2903M-T1
D3932
MA715-TX
R3962
10K/J6
PB_L24_ENV_DET
PB_L24_ENV_LIM
C3946
0.1/UFN
R3934
47/J6
PB_R24_ENV
(P1-9C)
IC3934
NJM2904M-T1
R3943
470K/J6
R3944
0/J6
C3940
0.22/UBN
R3952
2700/J6
R3958
270K/J6
R3967
2700/J6
PB_R24_ENV_DET
C3933
16V10/EVV
C3936
0.1/UFN
C3947
0.1/UFN
R3935
47/J6
DV_L_ENV
(P1-8C)
IC3935
NJM2904M-T1
R3945
470K/J6
R3946
0/J6
C3941
0.22/UBN
R3953
2700/J6
R3959
270K/J6
C3951
0.1/UFN
R3968
2700/J6
IC3939
NJM2903M-T1
D3933
MA715-TX
R3963
10K/J6
DV_L_ENV_DET
DV_L_ENV_LIM
C3948
0.1/UFN
R3936
47/J6
DV_R_ENV
(P1-9A)
IC3936
NJM2904M-T1
R3947
470K/J6
R3948
0/J6
C3942
0.22/UBN
R3954
2700/J6
R3960
270K/J6
R3969
2700/J6
DV_R_ENV_DET

Ref No. 3931-3969

COMPONENT NAME	F3:NON TRK(SYNC COUNTER)	30/31
CIRCUIT BOARD NO.		
VEP83444A		

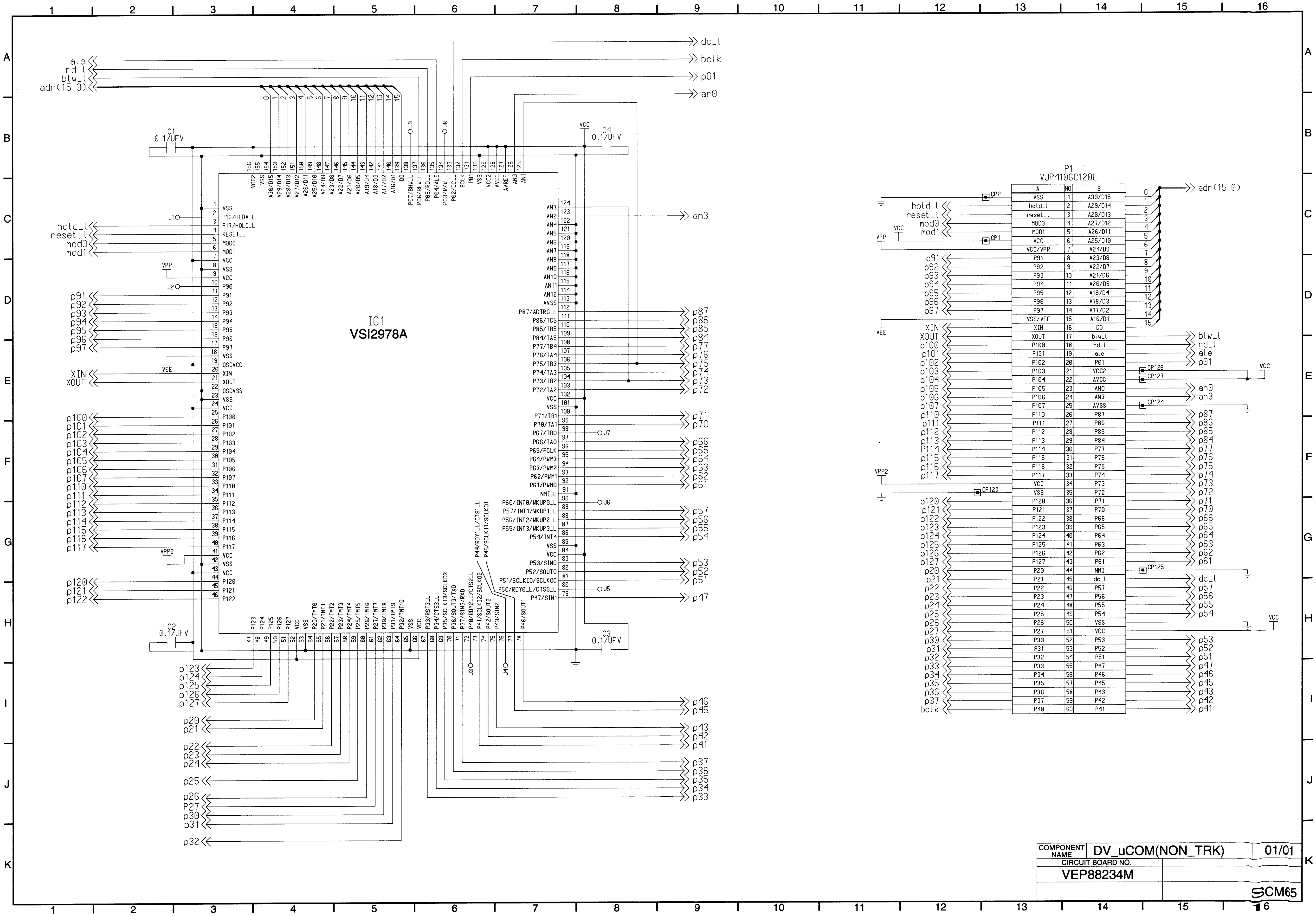
SCM63


+5V
(P1-30ABC)
L3981
VLF1151A132T
+D5V
D+5V
IC3984
PAT/HAT1026R
S1
S2
S3
G
D8
D7
D6
D5
C3989
0.1/UFN
C3991
16V10/EVV
DGND
IC3981
PAT/S80745AND9T1
OUT
VDD
VSS
R3981
PAT/J6
R3982
PAT/J6
R3983
PAT/J6
R3984
PAT/J6
R3985
PAT/J6
D3986
PAT/MA28W-ATX
QR3981
PAT/MUN2213T1
C3981
PAT/UFN
C3982
PAT/50V3R3/EVV
+3V
(P2-30ABC)
L3982
VLF1151A132T
IC3982
PAT/LT1086CM
D3984
PAT/MA701A-TX
D3982
PAT/MA701A-TX
+D3V
D+3.2V
C3983
PAT/16V10/EVV
R3986
PAT/J6
R3990
PAT/J6
R3987
PAT/J6
R3991
PAT/J6
C3985
0.1/UFN
C3987
6V100/EVV
IC3983
LT1086CM
D3981
MA701A-TX
D3985
MA701A-TX
D3983
MA701A-TX
+D2V
D+2.2V
C3984
16V10/EVV(R)
R3988
120/J6
R3992
PAT/J6
R3989
180/J6
R3993
180/J6
C3986
0.1/UFN
C3988
6V100/EVV
C3990
0.1/UFN
C3992
16V10/EVV
-5V
(P1-31ABC)
L3983
VLF1151A132T
-D5V
D-5V

Ref No. 3981-3993

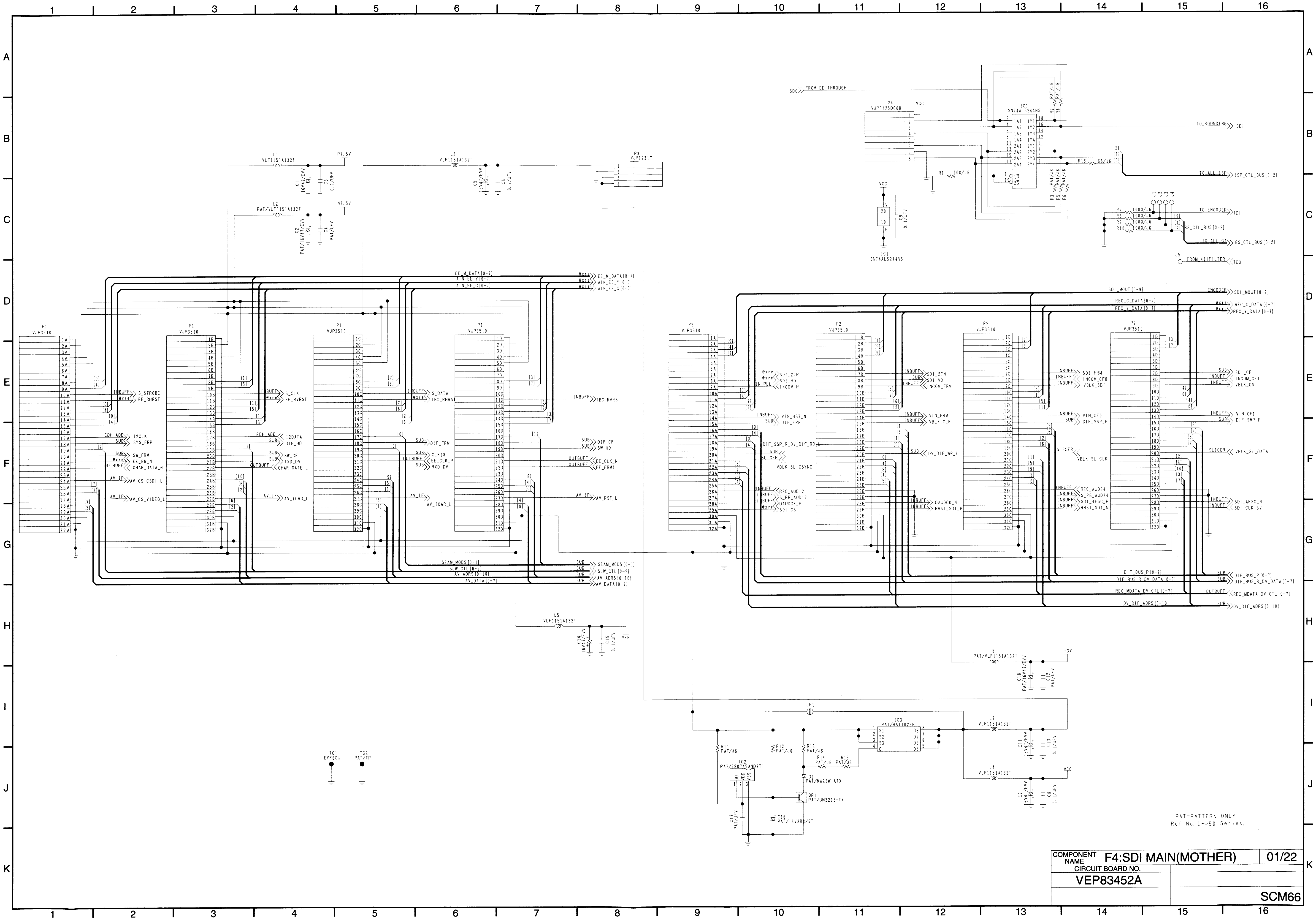
COMPONENT NAME	F3:NON TRK(POWER)	31/31
CIRCUIT BOARD NO.		
VEP83444A		
		SCM64

KR3V92(31/31)


IC1
VSI2978A
P1
VJP4106C120L
C1
0.1/UFV
C2
0.1/UFV
C3
0.1/UFV
C4
0.1/UFV
VCC
VPP
VPP2
VEE
ale
rd_l
blw_l
adr(15:0)
dc_l
bclk
p01
an0
an3
hold_l
reset_l
mod0
mod1
XIN
XOUT
J1
J2
J3
J4
J5
J6
J7
J8
J9
CP1
CP2
CP123
CP124
CP125
CP126
CP127

COMPONENT NAME	DV_uCOM(NON_TRK)	01/01
CIRCUIT BOARD NO.		
VEP88234M		
		SCM65

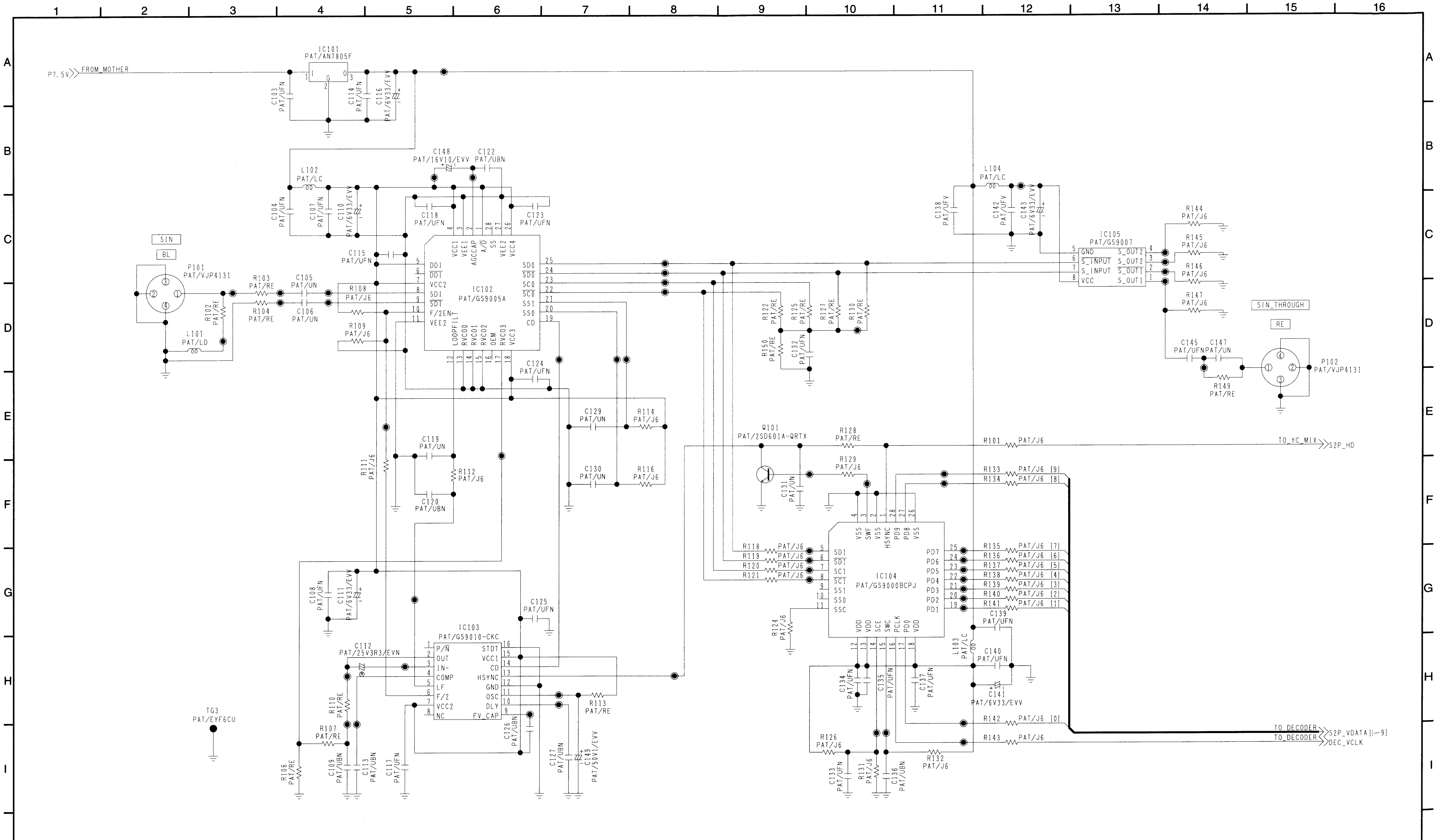
KR8717(1/1)


P1 VJP3510
P2 VJP3510
P3 VJP1231T
P4 VJP3125D008
IC1 SN74ALS244NS
IC2 PAT/S80745AN09T1
IC3 PAT/HAT1026R
L1 VLF1151A132T
L2 PAT/VLF1151A132T
L3 VLF1151A132T
L4 VLF1151A132T
L5 VLF1151A132T
L6 PAT/VLF1151A132T
L7 VLF1151A132T
JP1
D1 PAT/MA28W-ATX
QR1 PAT/UN2213-TX
TG1 EYFSCU
TG2 PAT/TP
P1.5V
N1.5V
VCC
VEE
+3V
SDO FROM_EE_THROUGH
TO_ROUNDING SDI
TO_ALL_ISP ISP_CTL_BUS[0-2]
TO_ENCODER TDI
BS_CTL_BUS[0-2]
TO_ALL_GA BS_CTL_BUS[0-2]
J5 FROM_4:1FILTER TDO
EE_M_DATA[0-7]
AIN_EE_Y[0-7]
AIN_EE_C[0-7]
S_STROBE
EE_RHRST
S_CLK
EE_RVRST
S_DATA
TBC_RHRST
TBC_RVRST
I2CLK
SYS_FRP
I2DATA
DIF_HD
DIF_FRM
DIF_CF
SW_HD
SW_FRM
EE_EN_N
CHAR_DATA_H
SW_CF
TXD_DV
CHAR_GATE_L
CLK18
EE_CLK_P
RXD_DV
EE_CLK_N
EE_FRM1
AV_CS_CSDI_L
AV_CS_VIDEO_L
AV_IORD_L
AV_IOWR_L
AV_RST_L
SEAM_MODS[0-1]
SLW_CTL[0-2]
AV_ADRS[0-10]
AV_DATA[0-7]
SDI_MOUT[0-9]
REC_C_DATA[0-7]
REC_Y_DATA[0-7]
SDI_27P
SDI_HD
INCOM_H
SDI_27N
SDI_VD
INCOM_FRM
SDI_FRM
INCOM_CF0
VBLK_SDI
SDI_CF
INCOM_CF1
VBLK_CS
VIN_HST_N
DIF_FRP
VIN_FRM
VBLK_CLK
VIN_CF0
DIF_SSP_P
VIN_CF1
DIF_SMP_P
DIF_SSP_R_DV_DIF_RD_L
VBLK_SL_CSYNC
DV_DIF_WR_L
VBLK_SL_CLK
VBLK_SL_DATA
REC_AUD12
S_PB_AUD12
DAUDCK_P
SDI_CS
DAUDCK_N
RRST_SDI_P
REC_AUD34
S_PB_AUD34
SDI_4FSC_P
RRST_SDI_N
SDI_4FSC_N
SDI_CLK_3V
DIF_BUS_P[0-7]
DIF_BUS_R_DV_DATA[0-7]
REC_MDATA_DV_CTL[0-7]
DV_DIF_ADRS[0-10]

PAT=PATTERN ONLY
Ref No. 1~50 Series.

COMPONENT NAME	F4:SDI MAIN(MOTHER)	01/22
CIRCUIT BOARD NO.		
VEP83452A		
		SCM66

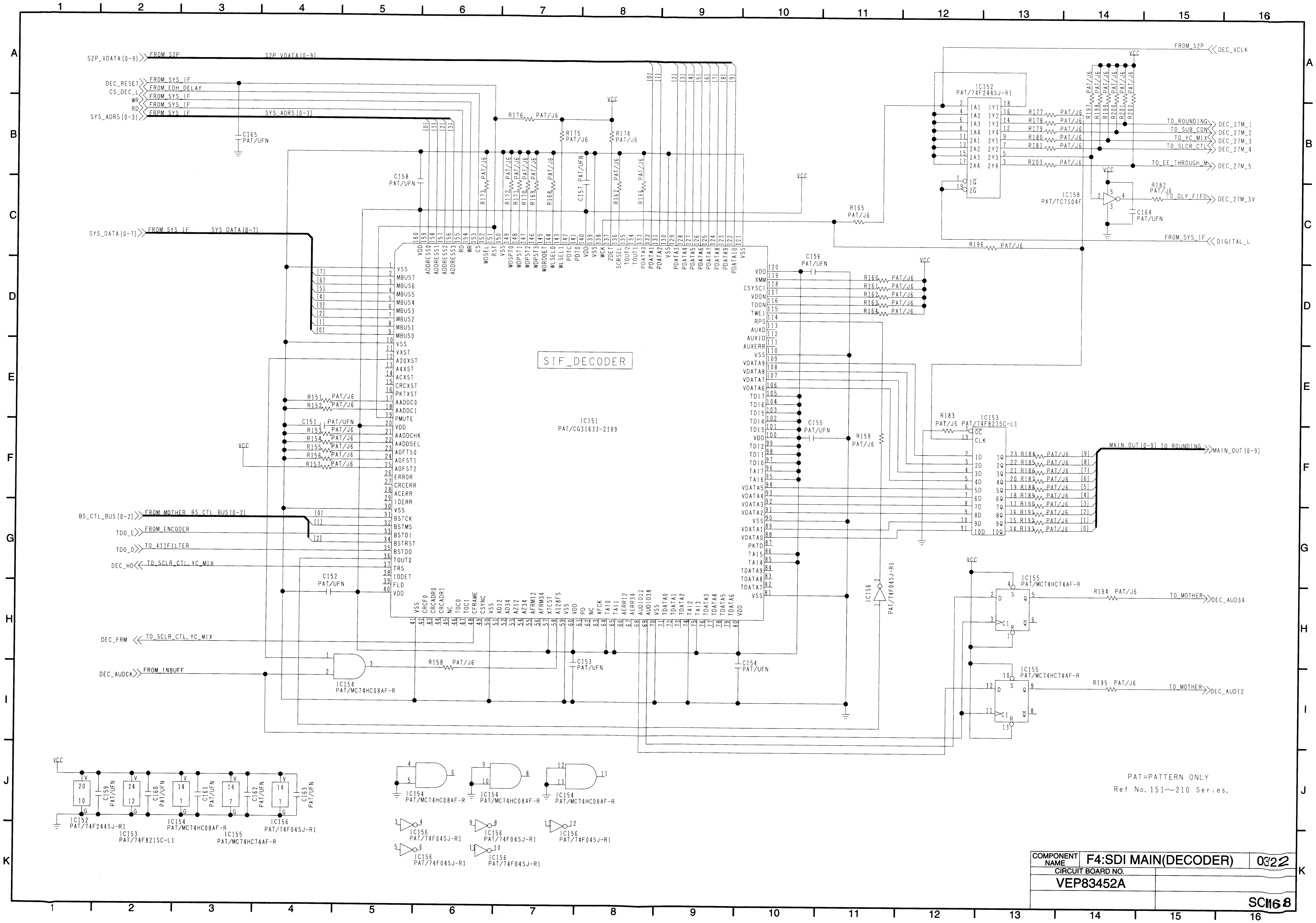
KR3W26(1/22)


P7.5V
FROM_MOTHER
IC101
PAT/AN7805F
C103 PAT/UFN
C114 PAT/UFN
C116 PAT/6V33/EVV
L102 PAT/LC
C104 PAT/UFN
C107 PAT/UFN
C110 PAT/6V33/EVV
C148 PAT/16V10/EVV
C122 PAT/UBN
C118 PAT/UFN
C123 PAT/UFN
C115 PAT/UFN
SIN
BL
P101 PAT/VJP4131
R103 PAT/RE
C105 PAT/UN
R104 PAT/RE
C106 PAT/UN
R102 PAT/RE
L101 PAT/LD
R108 PAT/J6
R109 PAT/J6
IC102
PAT/GS9005A
DDI
DDI
VCC2
SDI
SDI
F/2EN
VEE2
SDO
SDO
SCO
SCO
SS1
SS0
CD
VCC1
VEE1
AGCCAP
A/D
SS
VEE2
VCC4
LOOPFILT
RVCO0
RVCO1
RVCO2
OEM
RVCO3
VCC3
C124 PAT/UFN
C129 PAT/UN
R114 PAT/J6
C130 PAT/UN
R116 PAT/J6
C119 PAT/UN
R112 PAT/J6
C120 PAT/UBN
R111 PAT/J6
C108 PAT/UFN
C111 PAT/6V33/EVV
C125 PAT/UFN
IC103
PAT/GS9010-CKC
P/N
OUT
IN-
COMP
LF
F/2
VCC2
NC
STDT
VCC1
CD
HSYNC
GND
OSC
DLY
FV_CAP
C112 PAT/25V3R3/EVN
R110 PAT/RE
R107 PAT/RE
R106 PAT/RE
C109 PAT/UBN
C113 PAT/UBN
C117 PAT/UFN
C126 PAT/UBN
C127 PAT/UBN
C149 PAT/50V1/EVV
R113 PAT/RE
TG3 PAT/EYF6CU
L104 PAT/LC
C138 PAT/UFV
C142 PAT/UFV
C143 PAT/6V33/EVV
IC105
PAT/GS9007
GND
S_INPUT
S_INPUT
VCC
S_OUT2
S_OUT2
S_OUT1
S_OUT1
R144 PAT/J6
R145 PAT/J6
R146 PAT/J6
R147 PAT/J6
SIN_THROUGH
RE
C145 PAT/UFN
C147 PAT/UN
R149 PAT/RE
P102 PAT/VJP4131
R122 PAT/RE
R125 PAT/RE
R127 PAT/RE
R130 PAT/RE
R150 PAT/RE
C132 PAT/UFN
Q101 PAT/2SD601A-QRTX
R128 PAT/RE
R129 PAT/J6
C131 PAT/UN
R101 PAT/J6
TO_YC_MIX
S2P_HD
R133 PAT/J6 [9]
R134 PAT/J6 [8]
IC104
PAT/GS9000BCPJ
VSS
SWF
VSS
HSYNC
PD9
PD8
VSS
SDI
SDI
SCI
SCI
SS1
SS0
SSC
PD7
PD6
PD5
PD4
PD3
PD2
PD1
VDD
VDD
SCE
SWC
PCLK
PD0
VDD
R118 PAT/J6
R119 PAT/J6
R120 PAT/J6
R121 PAT/J6
R124 PAT/J6
R135 PAT/J6 [7]
R136 PAT/J6 [6]
R137 PAT/J6 [5]
R138 PAT/J6 [4]
R139 PAT/J6 [3]
R140 PAT/J6 [2]
R141 PAT/J6 [1]
C139 PAT/UFN
L103 PAT/LC
C140 PAT/UFN
C141 PAT/6V33/EVV
C134 PAT/UFN
C135 PAT/UFN
C137 PAT/UFN
R142 PAT/J6 [0]
R143 PAT/J6
TO_DECODER
S2P_VDATA[0-9]
TO_DECODER
DEC_VCLK
R126 PAT/J6
R132 PAT/J6
C133 PAT/UFN
R131 PAT/J6
C136 PAT/UBN

PAT=PATTERN ONLY
Ref No. 101～150 Series

KR3W29(2/22)

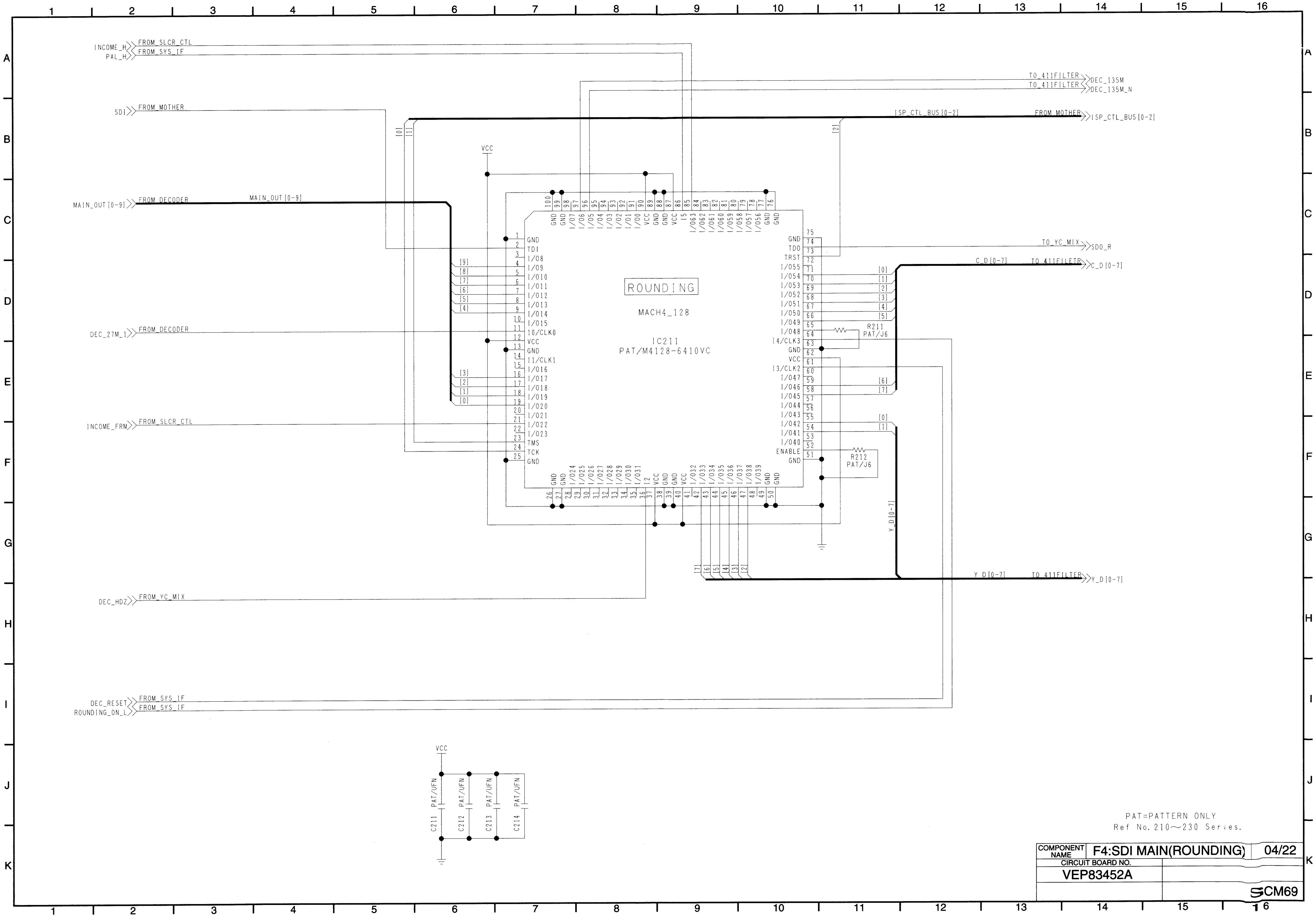
COMPONENT NAME	F4:SDI MAIN(S2P)	02/22
CIRCUIT BOARD NO.		
VEP83452A		
		CM67


S2P_VDATA[0-9]
FROM_S2P
S2P_VDATA[0-9]
DEC_RESET
CS_DEC_L
WR
RD
SYS_ADRS[0-3]
FROM_SYS_IF
FROM_EDH_DELAY
FRPM_SYS_IF
SYS_ADRS[0-3]
C165 PAT/UFN
C158 PAT/UFN
R176 PAT/J6
R175 PAT/J6
R174 PAT/J6
VCC
R113 PAT/J6
R172 PAT/J6
R171 PAT/J6
R170 PAT/J6
R169 PAT/J6
R168 PAT/J6
C157 PAT/UFN
R167 PAT/J6
R166 PAT/J6
SYS_DATA[0-7]
FROM_SYS_IF
SYS_DATA[0-7]
SIF_DECODER
IC151
PAT/CG31633-2109
VSS
MBUS7
MBUS6
MBUS5
MBUS4
MBUS3
MBUS2
MBUS1
MBUS0
VXST
A20XST
A4XST
ACXST
CRCXST
PKTXST
AADDC0
AADDC1
PMUTE
VDD
AADDCHK
AADDSEL
AOFTS0
AOFST1
AOFST2
ERROR
CRCERR
ACERR
IDERR
BSTCK
BSTMS
BSTDI
BSTRST
BSTDO
TOUT0
TRS
IDDET
FLD
ADDRESS0
ADDRESS1
ADDRESS2
ADDRESS3
RD
WR
CS
WDSEL
RST
WDSPT0
WDSPT1
WDSPT2
WDSPT3
WORDDET
WLSEL0
WLSEL1
PDTC
PDT0
WCK
ZDET
SCRSEL
TOUT1
PDATA0
PDATA1
PDATA2
PDATA3
PDATA4
PDATA5
PDATA6
PDATA7
PDATA8
PDATA9
XMM
CSYSC1
VDON
TDON
TWE1
RPS
AUXD
AUX1D
AUXERR
VDATA9
VDATA8
VDATA7
VDATA6
VDATA5
VDATA4
VDATA3
VDATA2
VDATA1
VDATA0
TDI7
TDI6
TDI5
TDI4
TDI3
TDI2
TDI1
TDI0
TAI7
TAI6
TAI5
TAI4
PKTD
TDATA9
TDATA8
TDATA7
CRCF0
CRCADR0
CRCADR1
NC
TOC0
TOC1
CFRAME
CSYNC
AD12
AD34
AZ12
AZ34
AFRM12
AFRM34
XTEST
A128FS
PD
AFCK
TAI0
TAI1
AERR12
AERR34
AUDIO12
AUDIO34
TDATA0
TDATA1
TDATA2
TAI2
TAI3
TDATA3
TDATA4
TDATA5
TDATA6
R151 PAT/J6
R152 PAT/J6
C151 PAT/UFN
R153 PAT/J6
R154 PAT/J6
R155 PAT/J6
R156 PAT/J6
R157 PAT/J6
BS_CTL_BUS[0-2]
FROM_MOTHER_BS_CTL_BUS[0-2]
TDO_E
FROM_ENCODER
TDO_D
TO_411FILTER
DEC_HD
TO_SCLR_CTL, YC_MIX
C152 PAT/UFN
DEC_FRM
TO_SCLR_CTL, YC_MIX
DEC_AUDCK
FROM_INBUFF
IC154 PAT/MC74HC08AF-R
R158 PAT/J6
C153 PAT/UFN
C154 PAT/UFN
C156 PAT/UFN
R160 PAT/J6
R161 PAT/J6
R162 PAT/J6
R163 PAT/J6
R164 PAT/J6
C155 PAT/UFN
R159 PAT/J6
R165 PAT/J6
IC156 PAT/74F04SJ-R1
IC152 PAT/74F244SJ-R1
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
1G
2G
R177 PAT/J6
R178 PAT/J6
R179 PAT/J6
R180 PAT/J6
R181 PAT/J6
R203 PAT/J6
R197 PAT/J6
R198 PAT/J6
R199 PAT/J6
R200 PAT/J6
R201 PAT/J6
R202 PAT/J6
FROM_S2P
DEC_VCLK
TO_ROUNDING
DEC_27M_1
TO_SUB_CON
DEC_27M_2
TO_YC_MIX
DEC_27M_3
TO_SLCR_CTL
DEC_27M_4
TO_EE_THROUGH_M
DEC_27M_5
IC158 PAT/TC7S04F
R182 PAT/J6
TO_DLY_FIFO
DEC_27M_3V
C164 PAT/UFN
FROM_SYS_IF
DIGITAL_L
R196 PAT/J6
R183 PAT/J6
IC153 PAT/74F821SC-L1
OC
CLK
1D 2D 3D 4D 5D 6D 7D 8D 9D 10D
1Q 2Q 3Q 4Q 5Q 6Q 7Q 8Q 9Q 10Q
R184 PAT/J6
R185 PAT/J6
R186 PAT/J6
R187 PAT/J6
R188 PAT/J6
R189 PAT/J6
R190 PAT/J6
R191 PAT/J6
R192 PAT/J6
R193 PAT/J6
MAIN_OUT[0-9] TO_ROUNDING
MAIN_OUT[0-9]
IC155 PAT/MC74HC74AF-R
R194 PAT/J6
TO_MOTHER
DEC_AUD34
IC155 PAT/MC74HC74AF-R
R195 PAT/J6
TO_MOTHER
DEC_AUD12
C159 PAT/UFN
C160 PAT/UFN
C161 PAT/UFN
C162 PAT/UFN
C163 PAT/UFN
IC152 PAT/T4F244SJ-R1
IC153 PAT/74F821SC-L1
IC154 PAT/MC74HC08AF-R
IC155 PAT/MC74HC74AF-R
IC156 PAT/74F04SJ-R1
IC154 PAT/MC74HC08AF-R
IC156 PAT/74F04SJ-R1

PAT=PATTERN ONLY
Ref No. 151~210 Series.

COMPONENT NAME	F4:SDI MAIN(DECODER)	0322
CIRCUIT BOARD NO.		
VEP83452A		
	SC168	

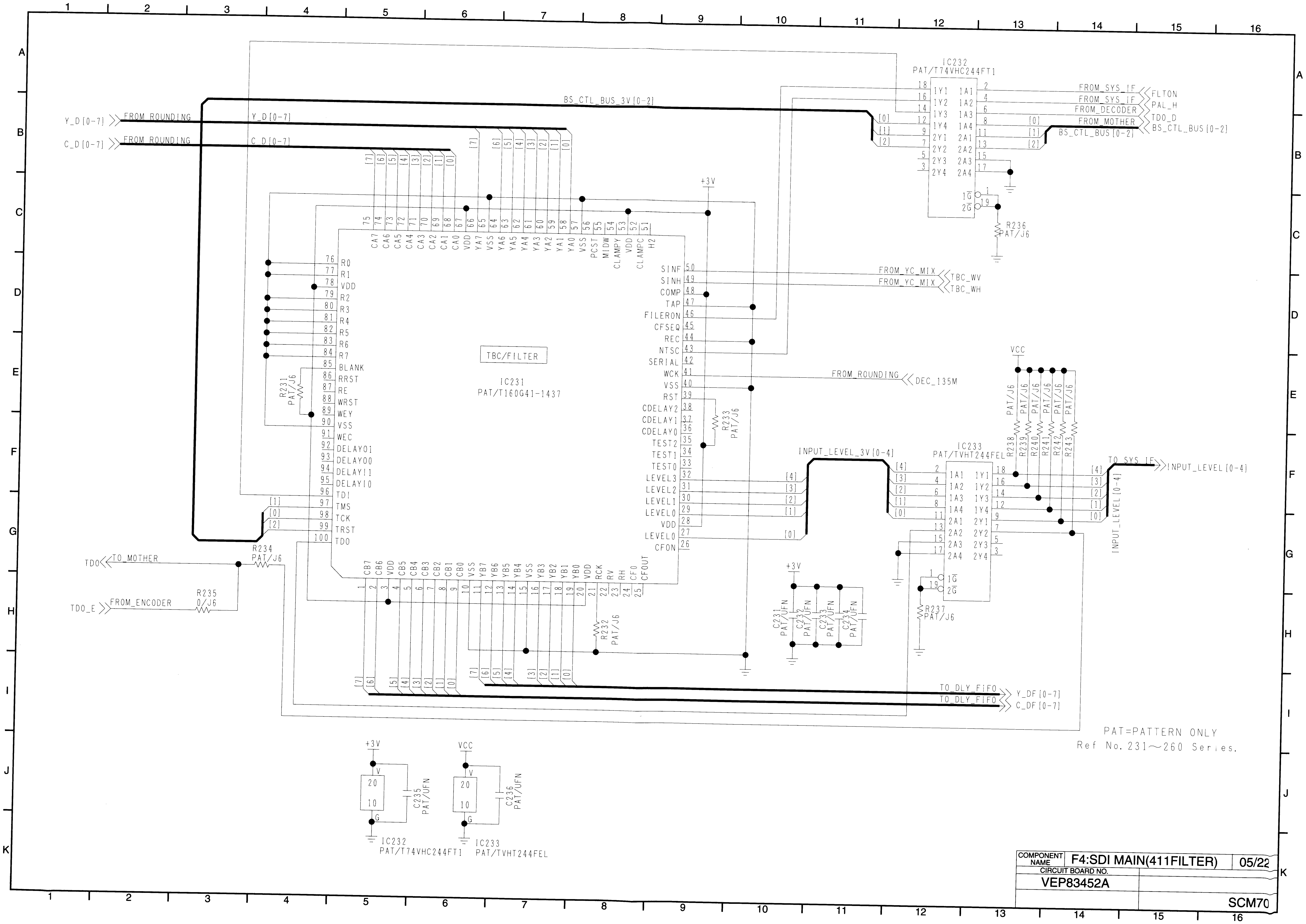
KR3W29(3/22)


INCOME_H
FROM_SLCR_CTL
PAL_H
FROM_SYS_IF
TO_411FILTER
DEC_135M
TO_411FILTER
DEC_135M_N
SDI
FROM_MOTHER
ISP_CTL_BUS[0-2]
FROM_MOTHER
ISP_CTL_BUS[0-2]
[0]
[1]
[2]
VCC
MAIN_OUT[0-9]
FROM_DECODER
MAIN_OUT[0-9]
[9]
[8]
[7]
[6]
[5]
[4]
DEC_27M_1
FROM_DECODER
[3]
[2]
[1]
[0]
INCOME_FRM
FROM_SLCR_CTL
ROUNDING
MACH4_128
IC211
PAT/M4128-6410VC
GND
TDI
I/08
I/09
I/010
I/011
I/012
I/013
I/014
I/015
10/CLK0
VCC
GND
I1/CLK1
I/016
I/017
I/018
I/019
I/020
I/021
I/022
I/023
TMS
TCK
GND
GND
GND
I/07
I/06
I/05
I/04
I/03
I/02
I/01
I/00
VCC
GND
GND
VCC
I5
I/063
I/062
I/061
I/060
I/059
I/058
I/057
I/056
GND
GND
GND
TDO
TRST
I/055
I/054
I/053
I/052
I/051
I/050
I/049
I/048
I4/CLK3
GND
VCC
I3/CLK2
I/047
I/046
I/045
I/044
I/043
I/042
I/041
I/040
ENABLE
GND
GND
GND
I/024
I/025
I/026
I/027
I/028
I/029
I/030
I/031
I2
VCC
GND
GND
VCC
I/032
I/033
I/034
I/035
I/036
I/037
I/038
I/039
GND
GND
TO_YC_MIX
SDO_R
C_D[0-7]
TO_411FILTER
C_D[0-7]
[0]
[1]
[2]
[3]
[4]
[5]
R211
PAT/J6
[6]
[7]
[0]
[1]
R212
PAT/J6
Y_D[0-7]
[7]
[6]
[5]
[4]
[3]
[2]
Y_D[0-7]
TO_411FILTER
Y_D[0-7]
DEC_HDZ
FROM_YC_MIX
DEC_RESET
FROM_SYS_IF
ROUNDING_ON_L
FROM_SYS_IF
VCC
C211 PAT/UFN
C212 PAT/UFN
C213 PAT/UFN
C214 PAT/UFN

PAT=PATTERN ONLY
Ref No. 210〜230 Series.

COMPONENT NAME F4:SDI MAIN(ROUNDING) 04/22
CIRCUIT BOARD NO.
VEP83452A
SCM69

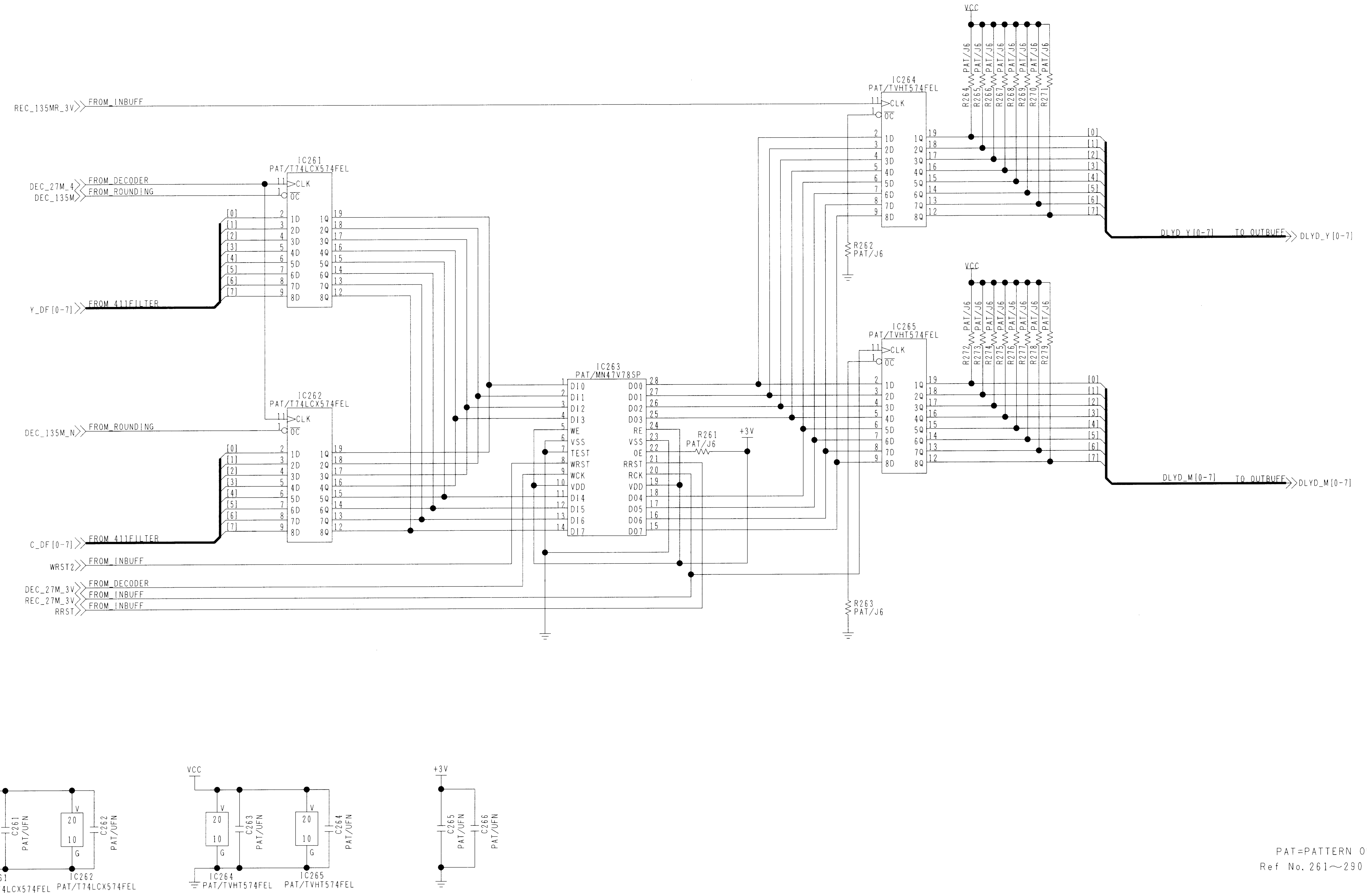
KR3W29(4/22)


IC232
PAT/T74VHC244FT1
FROM_SYS_IF FLTON
FROM_SYS_IF PAL_H
FROM_DECODER TDO_D
FROM_MOTHER BS_CTL_BUS[0-2]
BS_CTL_BUS[0-2]
BS_CTL_BUS_3V[0-2]
Y_D[0-7] FROM_ROUNDING Y_D[0-7]
C_D[0-7] FROM_ROUNDING C_D[0-7]
R236 PAT/J6
+3V
TBC/FILTER
IC231
PAT/T160G41-1437
R0 R1 VDD R2 R3 R4 R5 R6 R7 BLANK RRST RE WRST WEY VSS WEC DELAYO1 DELAYO0 DELAYI1 DELAYI0 TDI TMS TCK TRST TDO
CA7 CA6 CA5 CA4 CA3 CA2 CA1 CA0 VDD YA7 VSS YA6 YA5 YA4 YA3 YA2 YA1 YA0 VSS PCST MIDW CLAMPY VDD CLAMPC H2
SINF SINH COMP TAP FILERON CFSEQ REC NTSC SERIAL WCK VSS RST CDELAY2 CDELAY1 CDELAY0 TEST2 TEST1 TEST0 LEVEL3 LEVEL2 LEVEL1 LEVEL0 VDD LEVEL0 CFON
CB7 CB6 VDD CB5 CB4 CB3 CB2 CB1 CB0 VSS YB7 YB6 YB5 YB4 VSS YB3 YB2 YB1 YB0 VDD RCK RV RH CF0 CFOUT
FROM_YC_MIX TBC_WV
FROM_YC_MIX TBC_WH
FROM_ROUNDING DEC_135M
R231 PAT/J6
R233 PAT/J6
R232 PAT/J6
VCC
R238 R239 R240 R241 R242 R243 PAT/J6
IC233
PAT/TVHT244FEL
INPUT_LEVEL_3V[0-4]
TO_SYS_IF INPUT_LEVEL[0-4]
INPUT_LEVEL[0-4]
R237 PAT/J6
TDO TO_MOTHER
R234 PAT/J6
TDO_E FROM_ENCODER
R235 0/J6
C231 C232 C233 C234 PAT/UFN
TO_DLY_FIFO Y_DF[0-7]
TO_DLY_FIFO C_DF[0-7]
C235 PAT/UFN
C236 PAT/UFN
IC232
PAT/T74VHC244FT1
IC233
PAT/TVHT244FEL

PAT=PATTERN ONLY
Ref No. 231～260 Series.

COMPONENT NAME	F4:SDI MAIN(411FILTER)	05/22
CIRCUIT BOARD NO.		
VEP83452A		
		SCM70

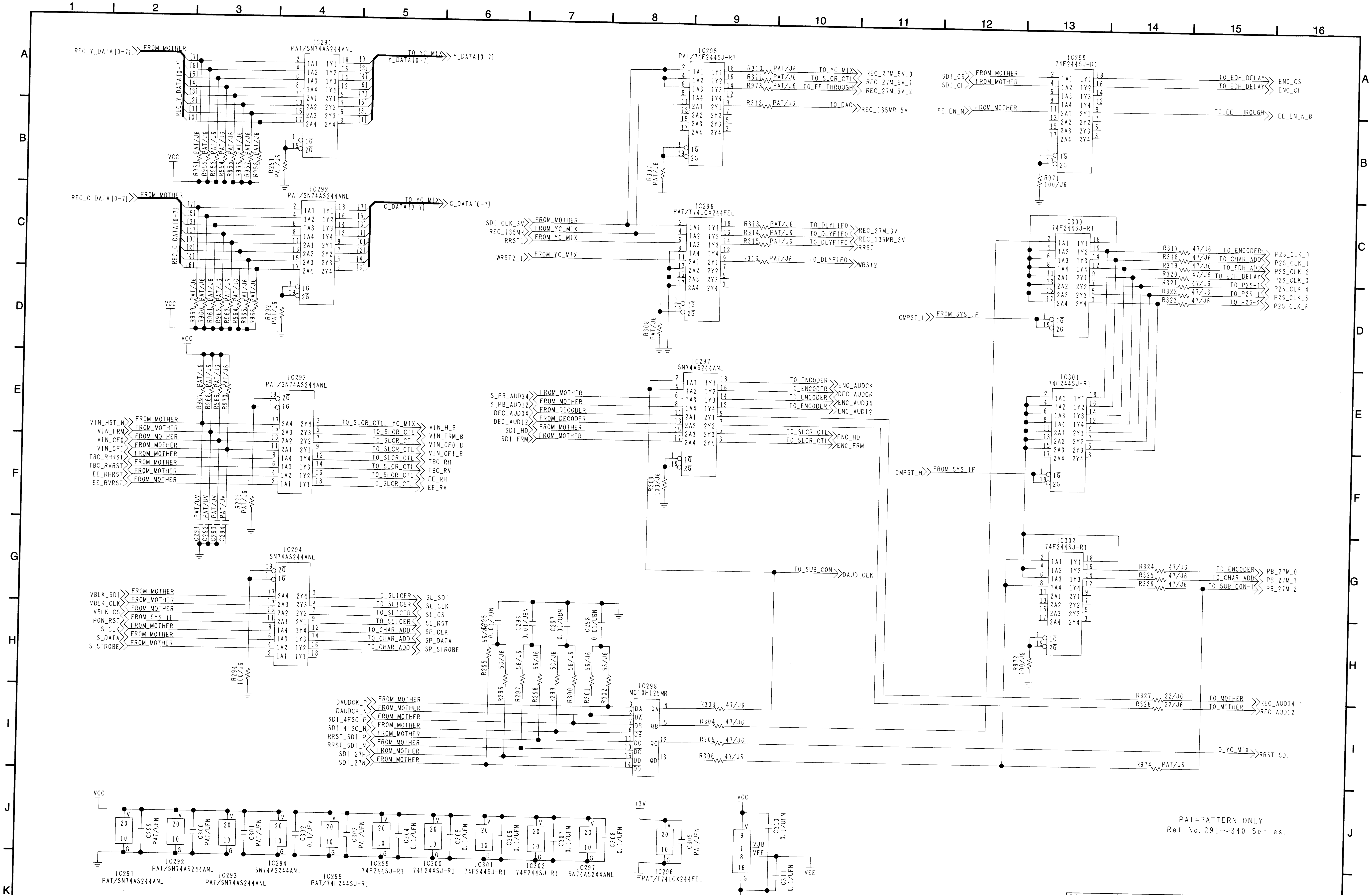
KR3W29(5/22)


REC_135MR_3V
FROM_INBUFF
DEC_27M_4
FROM_DECODER
DEC_135M
FROM_ROUNDING
Y_DF[0-7]
FROM_411FILTER
IC261
PAT/T74LCX574FEL
IC262
PAT/T74LCX574FEL
DEC_135M_N
FROM_ROUNDING
C_DF[0-7]
FROM_411FILTER
WRST2
FROM_INBUFF
DEC_27M_3V
FROM_DECODER
REC_27M_3V
FROM_INBUFF
RRST
FROM_INBUFF
IC263
PAT/MN47V78SP
R261
PAT/J6
+3V
IC264
PAT/TVHT574FEL
IC265
PAT/TVHT574FEL
VCC
R262
PAT/J6
R263
PAT/J6
R264–R271 PAT/J6
R272–R279 PAT/J6
DLYD_Y[0-7]
TO_OUTBUFF
DLYD_Y[0-7]
DLYD_M[0-7]
TO_OUTBUFF
DLYD_M[0-7]
+3V
C261 PAT/UFN
C262 PAT/UFN
IC261 PAT/T74LCX574FEL
IC262 PAT/T74LCX574FEL
VCC
C263 PAT/UFN
C264 PAT/UFN
IC264 PAT/TVHT574FEL
IC265 PAT/TVHT574FEL
+3V
C265 PAT/UFN
C266 PAT/UFN

PAT=PATTERN ONLY
Ref No. 261~290 Series.

KR3W29(6/22)

COMPONENT NAME F4:SDI MAIN(DLYFIFO) 06/22
CIRCUIT BOARD NO.
VEP83452A
SCM71

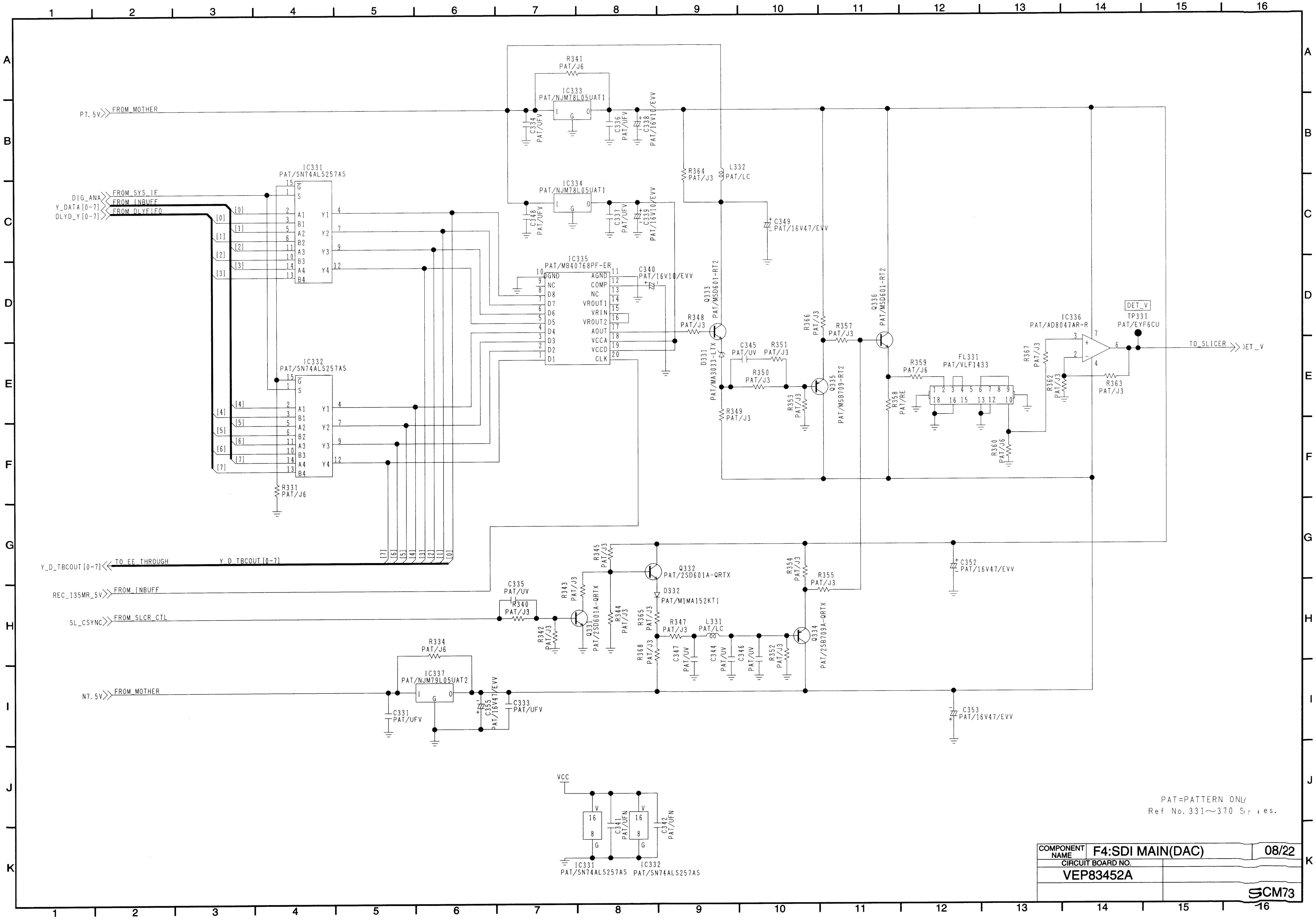

IC291
PAT/SN74AS244ANL
REC_Y_DATA[0-7]
FROM MOTHER
TO YC MIX
Y_DATA[0-7]
R951~R958 PAT/J6
R291 PAT/J6
VCC
IC292
PAT/SN74AS244ANL
REC_C_DATA[0-7]
C_DATA[0-7]
R959~R966 PAT/J6
R292 PAT/J6
IC293
PAT/SN74AS244ANL
VIN_HST_N
VIN_FRM
VIN_CF0
VIN_CF1
TBC_RHRST
TBC_RVRST
EE_RHRST
EE_RVRST
TO_SLCR_CTL, YC_MIX
TO_SLCR_CTL
VIN_H_B
VIN_FRM_B
VIN_CF0_B
VIN_CF1_B
TBC_RH
TBC_RV
EE_RH
EE_RV
R967~R970 PAT/J6
R293 PAT/J6
C291~C294 PAT/UV
IC294
SN74AS244ANL
VBLK_SDI
VBLK_CLK
VBLK_CS
PON_RST
S_CLK
S_DATA
S_STROBE
FROM_SYS_IF
TO_SLICER
TO_CHAR_ADD
SL_SDI
SL_CLK
SL_CS
SL_RST
SP_CLK
SP_DATA
SP_STROBE
R294 100/J6
IC295
PAT/74F244SJ-R1
R310 PAT/J6
R311 PAT/J6
R973 PAT/J6
R312 PAT/J6
TO_YC_MIX
TO_SLCR_CTL
TO_EE_THROUGH
TO_DAC
REC_27M_5V_0
REC_27M_5V_1
REC_27M_5V_2
REC_135MR_5V
R307 PAT/J6
IC296
PAT/T74LCX244FEL
SDI_CLK_3V
REC_135MR
RRST1
WRST2_1
FROM_YC_MIX
R313 PAT/J6
R314 PAT/J6
R315 PAT/J6
R316 PAT/J6
TO_DLYFIFO
REC_27M_3V
REC_135MR_3V
RRST
WRST2
R308 PAT/J6
IC297
SN74AS244ANL
S_PB_AUD34
S_PB_AUD12
DEC_AUD34
DEC_AUD12
SDI_HD
SDI_FRM
FROM_DECODER
TO_ENCODER
ENC_AUDCK
DEC_AUDCK
ENC_AUD34
ENC_AUD12
ENC_HD
ENC_FRM
R309 100/J6
TO_SUB_CON
DAUD_CLK
C295 0.01/UBN
C296 0.01/UBN
C297 0.01/UBN
C298 0.01/UBN
R295~R302 56/J6
IC298
MC10H125MR
DAUDCK_P
DAUDCK_N
SDI_4FSC_P
SDI_4FSC_N
RRST_SDI_P
RRST_SDI_N
SDI_27P
SDI_27N
R303 47/J6
R304 47/J6
R305 47/J6
R306 47/J6
IC299
74F244SJ-R1
SDI_CS
SDI_CF
EE_EN_N
TO_EDH_DELAY
ENC_CS
ENC_CF
TO_EE_THROUGH
EE_EN_N_B
R971 100/J6
IC300
74F244SJ-R1
CMPST_L
R317~R323 47/J6
TO_ENCODER
TO_CHAR_ADD
TO_EDH_ADD
TO_EDH_DELAY
TO_P2S-1
TO_P2S-2
P2S_CLK_0
P2S_CLK_1
P2S_CLK_2
P2S_CLK_3
P2S_CLK_4
P2S_CLK_5
P2S_CLK_6
IC301
74F244SJ-R1
CMPST_H
IC302
74F244SJ-R1
R324 47/J6
R325 47/J6
R326 47/J6
TO_SUB_CON-1
PB_27M_0
PB_27M_1
PB_27M_2
R972 100/J6
R327 22/J6
R328 22/J6
TO_MOTHER
REC_AUD34
REC_AUD12
TO_YC_MIX
RRST_SDI
R974 PAT/J6
C299 PAT/UFN
C300 PAT/UFN
C301 PAT/UFN
C302 0.1/UFV
C303 PAT/UFN
C304 0.1/UFN
C305 0.1/UFN
C306 0.1/UFN
C307 0.1/UFN
C308 0.1/UFN
+3V
C309 PAT/UFN
IC296
PAT/T74LCX244FEL
C310 0.1/UFN
C311 0.1/UFN
VEE
VBB
IC298
MC10H125MR
IC291 PAT/SN74AS244ANL
IC292 PAT/SN74AS244ANL
IC293 PAT/SN74AS244ANL
IC294 SN74AS244ANL
IC295 PAT/74F244SJ-R1
IC299 74F244SJ-R1
IC300 74F244SJ-R1
IC301 74F244SJ-R1
IC302 74F244SJ-R1
IC297 SN74AS244ANL

PAT=PATTERN ONLY
Ref No. 291~340 Series.

COMPONENT NAME	F4:SDI MAIN(IN BUFF)	0722
CIRCUIT BOARD NO.		
VEP83452A		

SC72

KR3W29(7/22)

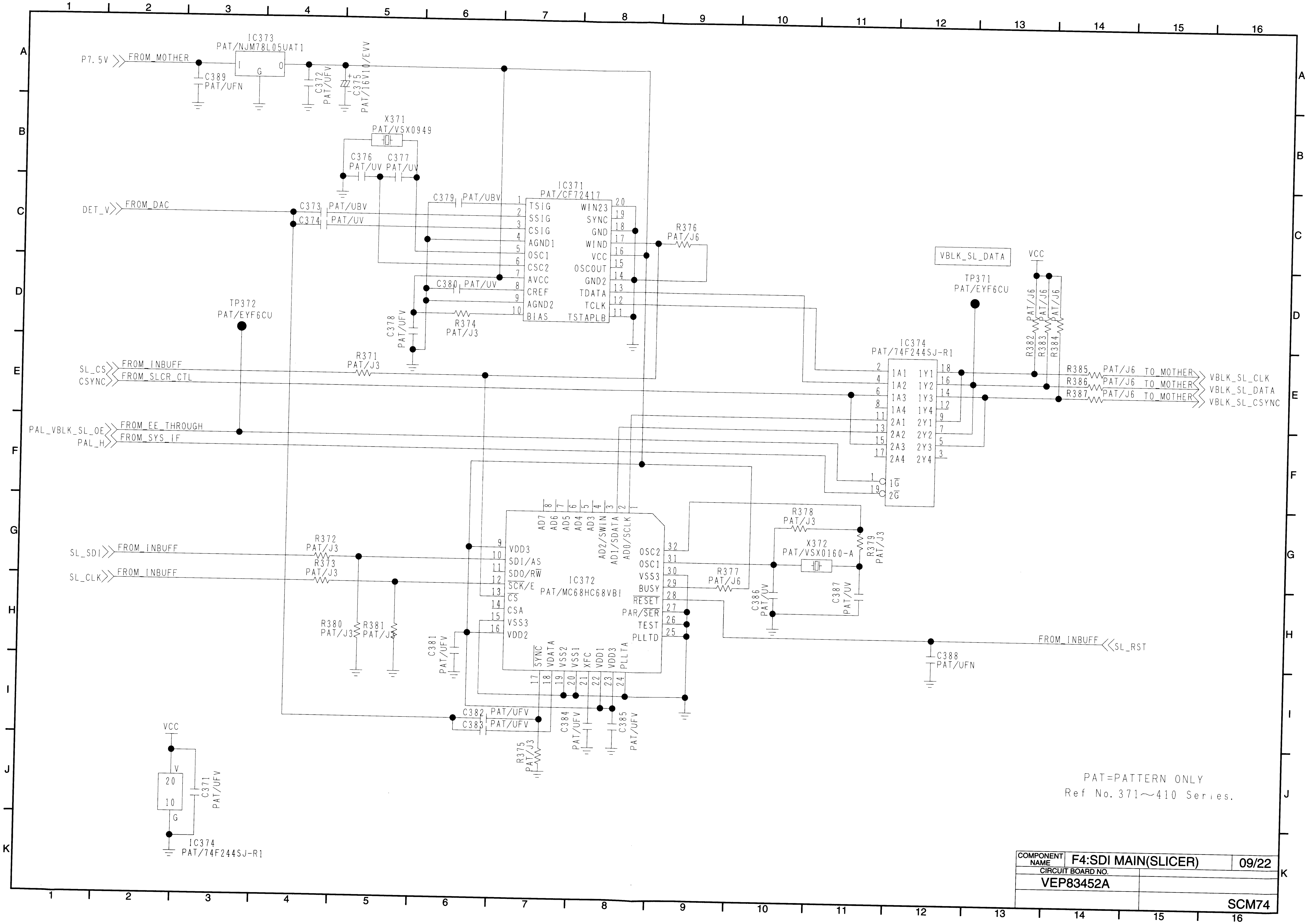

P7.5V FROM MOTHER
DIG_ANA FROM SYS_IF
Y_DATA[0-7] FROM INBUFF
DLYD_Y[0-7] FROM DLYFIFO
IC331 PAT/SN74ALS257AS
IC332 PAT/SN74ALS257AS
R331 PAT/J6
R341 PAT/J6
IC333 PAT/NJM78L05UAT1
IC334 PAT/NJM78L05UAT1
C334 PAT/UFV
C336 PAT/UFV
C338 PAT/16V10/EVV
C348 PAT/UFV
C337 PAT/UFV
C339 PAT/16V10/EVV
IC335 PAT/MB40768PF-ER
C340 PAT/16V10/EVV
R364 PAT/J3
L332 PAT/LC
C349 PAT/16V47/EVV
Q333 PAT/MSD601-RT2
R348 PAT/J3
D331 PAT/MA3033-LTX
C345 PAT/UV
R351 PAT/J3
R350 PAT/J3
R349 PAT/J3
R353 PAT/J3
Q335 PAT/MSB709-RT2
R366 PAT/J3
R357 PAT/J3
Q336 PAT/MSD601-RT2
R358 PAT/RE
R359 PAT/J6
FL331 PAT/VLF1433
R360 PAT/J6
R367 PAT/J3
R362 PAT/J3
R363 PAT/J3
IC336 PAT/AD8047AR-R
DET_V
TP331 PAT/EYF6CU
TO_SLICER DET_V
Y_D_TBCOUT[0-7] TO EE THROUGH Y_D_TBCOUT[0-7]
REC_135MR_5V FROM INBUFF
SL_CSYNC FROM SLCR_CTL
C335 PAT/UV
R340 PAT/J3
R342 PAT/J3
R343 PAT/J3
Q331 PAT/2SD601A-QRTX
R344 PAT/J3
R345 PAT/J3
Q332 PAT/2SD601A-QRTX
D332 PAT/M1MA152KT1
R365 PAT/J3
R368 PAT/J3
R347 PAT/J3
L331 PAT/LC
C347 PAT/UV
C344 PAT/UV
C346 PAT/UV
R352 PAT/J3
R354 PAT/J3
R355 PAT/J3
Q334 PAT/2SB709A-QRTX
C352 PAT/16V47/EVV
C353 PAT/16V47/EVV
N7.5V FROM MOTHER
R334 PAT/J6
IC337 PAT/NJM79L05UAT2
C331 PAT/UFV
C355 PAT/16V47/EVV
C333 PAT/UFV
VCC
C341 PAT/UFN
C342 PAT/UFN
IC331 PAT/SN74ALS257AS
IC332 PAT/SN74ALS257AS
PAT=PATTERN ONLY
Ref No. 331~370 Series.

COMPONENT NAME F4:SDI MAIN(DAC) 08/22

CIRCUIT BOARD NO. VEP83452A

CM73

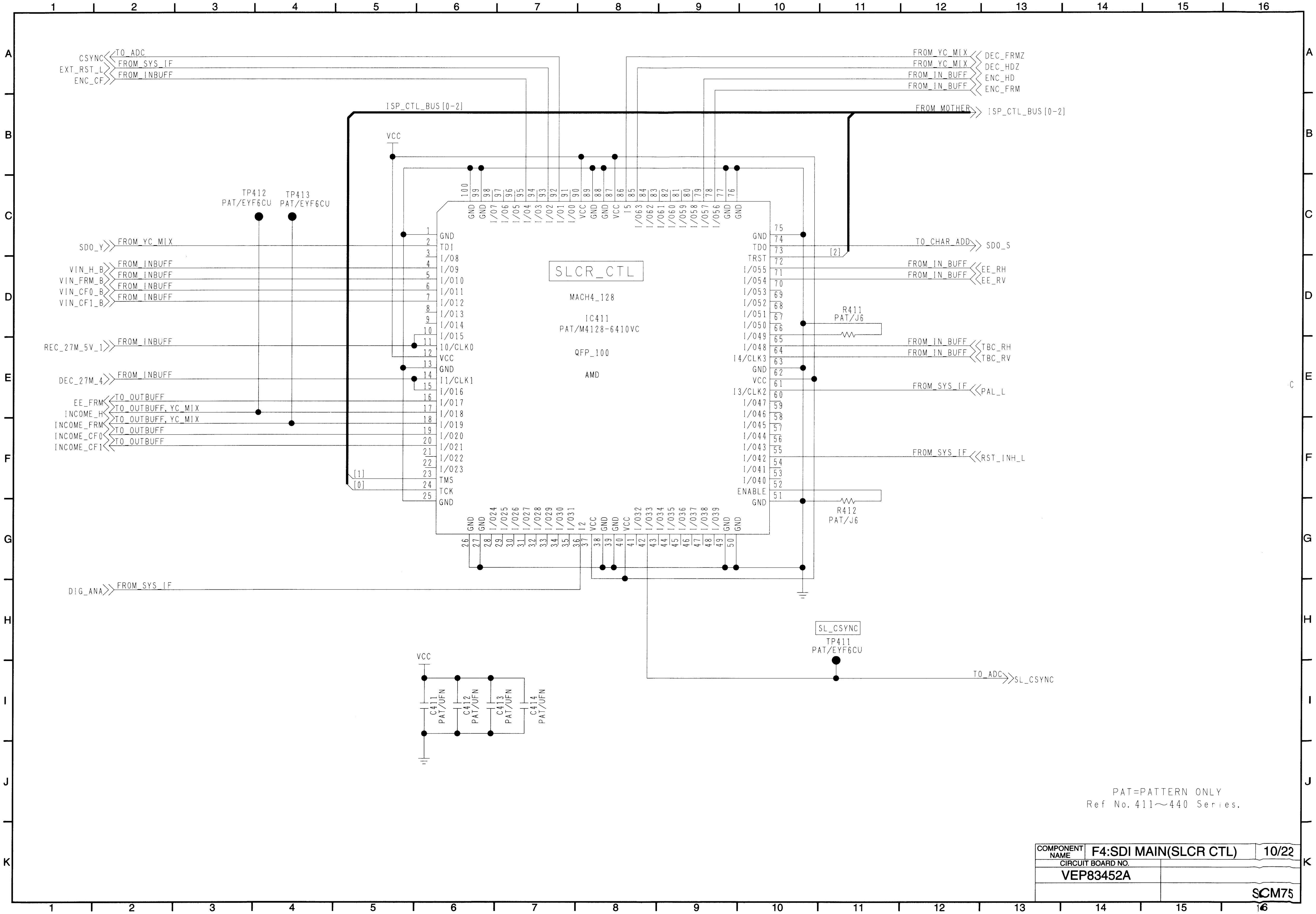
KR3W29(8/22)


P7.5V
FROM_MOTHER
IC373
PAT/NJM78L05UAT1
I G O
C389
PAT/UFN
C372
PAT/UFV
C375
PAT/16V10/EVV
X371
PAT/VSX0949
C376
PAT/UV
C377
PAT/UV
DET_V
FROM_DAC
C373
PAT/UBV
C374
PAT/UV
C379
PAT/UBV
IC371
PAT/CF72417
TSIG
SSIG
CSIG
AGND1
OSC1
CSC2
AVCC
CREF
AGND2
BIAS
WIN23
SYNC
GND
WIND
VCC
OSCOUT
GND2
TDATA
TCLK
TSTAPLB
C380
PAT/UV
C378
PAT/UFV
R374
PAT/J3
R376
PAT/J6
VBLK_SL_DATA
VCC
TP371
PAT/EYF6CU
TP372
PAT/EYF6CU
R382
R383
R384
PAT/J6
IC374
PAT/74F244SJ-R1
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
1G
2G
R385
R386
R387
PAT/J6
TO_MOTHER
VBLK_SL_CLK
VBLK_SL_DATA
VBLK_SL_CSYNC
SL_CS
FROM_INBUFF
CSYNC
FROM_SLCR_CTL
R371
PAT/J3
PAL_VBLK_SL_OE
FROM_EE_THROUGH
PAL_H
FROM_SYS_IF
SL_SDI
FROM_INBUFF
R372
PAT/J3
R373
PAT/J3
SL_CLK
FROM_INBUFF
R380
PAT/J3
R381
PAT/J3
IC372
PAT/MC68HC68VBI
AD7 AD6 AD5 AD4 AD3
AD2/SWIN
AD1/SDATA
AD0/SCLK
VDD3
SDI/AS
SDO/RW
SCK/E
CS
CSA
VSS3
VDD2
OSC2
OSC1
VSS3
BUSY
RESET
PAR/SER
TEST
PLLTD
SYNC
VDATA
VSS2
VSS1
XFC
VDD1
VDD3
PLLTA
R378
PAT/J3
R379
PAT/J3
X372
PAT/VSX0160-A
R377
PAT/J6
C386
PAT/UV
C387
PAT/UV
C381
PAT/UFV
FROM_INBUFF
SL_RST
C388
PAT/UFN
C382
PAT/UFV
C383
PAT/UFV
C384
PAT/UFV
C385
PAT/UFV
R375
PAT/J3
VCC
V
20
10
G
C371
PAT/UFV
IC374
PAT/74F244SJ-R1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

PAT=PATTERN ONLY
Ref No. 371～410 Series.

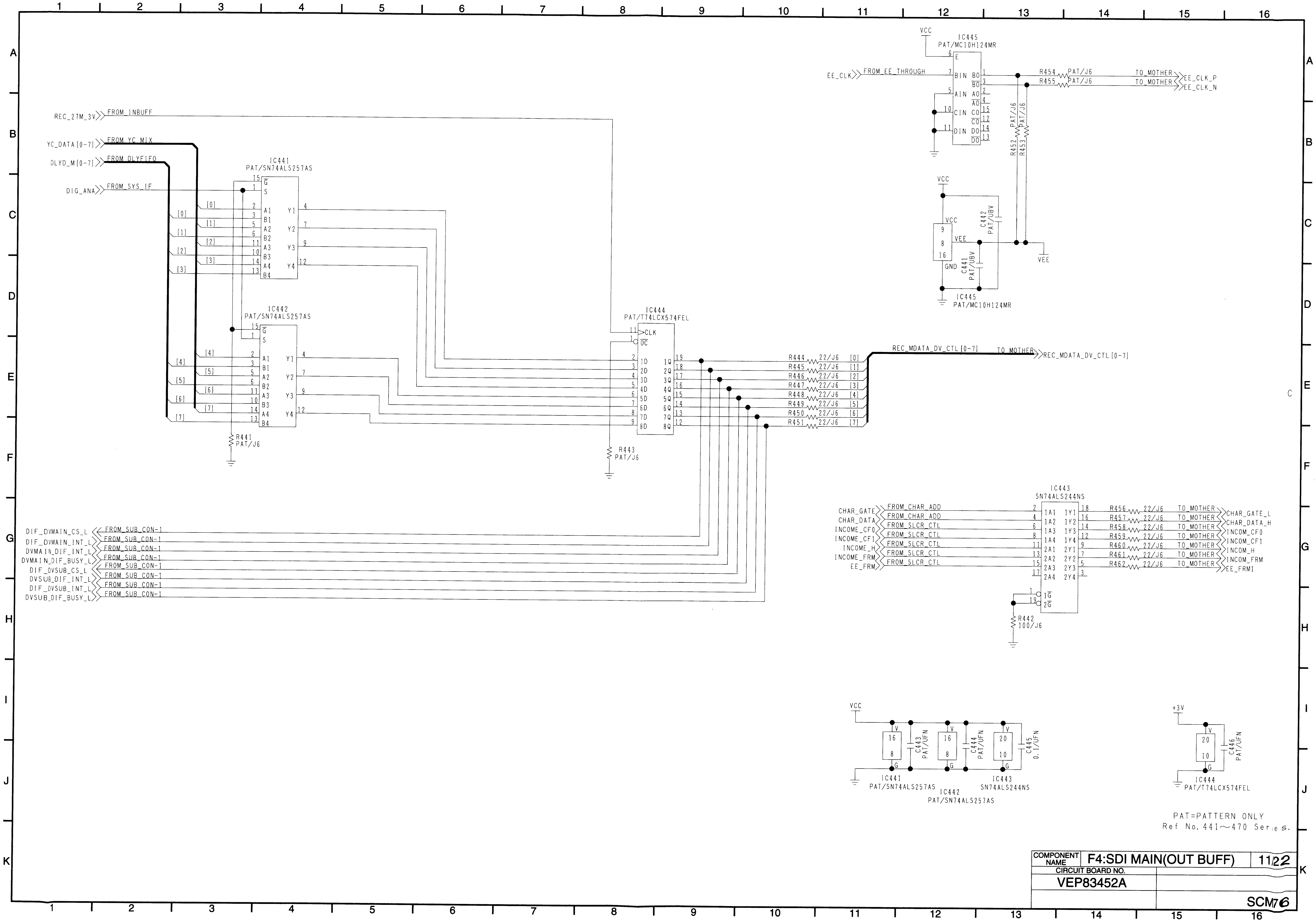
COMPONENT NAME	F4:SDI MAIN(SLICER)	09/22
CIRCUIT BOARD NO.		
VEP83452A		SCM74

KR3W29(9/22)


SLCR_CTL
MACH4_128
IC411
PAT/M4128-6410VC
QFP_100
AMD
CSYNC TO_ADC
EXT_RST_L FROM_SYS_IF
ENC_CF FROM_INBUFF
ISP_CTL_BUS[0-2]
VCC
TP412 PAT/EYF6CU
TP413 PAT/EYF6CU
SDO_Y FROM_YC_MIX
VIN_H_B FROM_INBUFF
VIN_FRM_B FROM_INBUFF
VIN_CF0_B FROM_INBUFF
VIN_CF1_B FROM_INBUFF
REC_27M_5V_1 FROM_INBUFF
DEC_27M_4 FROM_INBUFF
EE_FRM TO_OUTBUFF
INCOME_H TO_OUTBUFF, YC_MIX
INCOME_FRM TO_OUTBUFF, YC_MIX
INCOME_CF0 TO_OUTBUFF
INCOME_CF1 TO_OUTBUFF
DIG_ANA FROM_SYS_IF
FROM_YC_MIX DEC_FRMZ
FROM_YC_MIX DEC_HDZ
FROM_IN_BUFF ENC_HD
FROM_IN_BUFF ENC_FRM
FROM_MOTHER ISP_CTL_BUS[0-2]
TO_CHAR_ADD SDO_S
FROM_IN_BUFF EE_RH
FROM_IN_BUFF EE_RV
R411 PAT/J6
FROM_IN_BUFF TBC_RH
FROM_IN_BUFF TBC_RV
FROM_SYS_IF PAL_L
FROM_SYS_IF RST_INH_L
R412 PAT/J6
SL_CSYNC
TP411 PAT/EYF6CU
TO_ADC SL_CSYNC
C411 PAT/UFN
C412 PAT/UFN
C413 PAT/UFN
C414 PAT/UFN
[0]
[1]
[2]
1 GND
2 TDI
3 I/08
4 I/09
5 I/010
6 I/011
7 I/012
8 I/013
9 I/014
10 I/015
11 10/CLK0
12 VCC
13 GND
14 I1/CLK1
15 I/016
16 I/017
17 I/018
18 I/019
19 I/020
20 I/021
21 I/022
22 I/023
23 TMS
24 TCK
25 GND
26 GND
27 GND
28 I/024
29 I/025
30 I/026
31 I/027
32 I/028
33 I/029
34 I/030
35 I/031
36 I2
37 VCC
38 GND
39 GND
40 VCC
41 I/032
42 I/033
43 I/034
44 I/035
45 I/036
46 I/037
47 I/038
48 I/039
49 GND
50 GND
51 GND
52 ENABLE
53 I/040
54 I/041
55 I/042
56 I/043
57 I/044
58 I/045
59 I/046
60 I/047
61 I3/CLK2
62 VCC
63 GND
64 I4/CLK3
65 I/048
66 I/049
67 I/050
68 I/051
69 I/052
70 I/053
71 I/054
72 I/055
73 TRST
74 TDO
75 GND
76 GND
77 GND
78 I/056
79 I/057
80 I/058
81 I/059
82 I/060
83 I/061
84 I/062
85 I/063
86 I5
87 VCC
88 GND
89 GND
90 VCC
91 I/00
92 I/01
93 I/02
94 I/03
95 I/04
96 I/05
97 I/06
98 I/07
99 GND
100 GND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

PAT=PATTERN ONLY
Ref No. 411～440 Series.

COMPONENT NAME	F4:SDI MAIN(SLCR CTL)	10/22
CIRCUIT BOARD NO.		
VEP83452A		

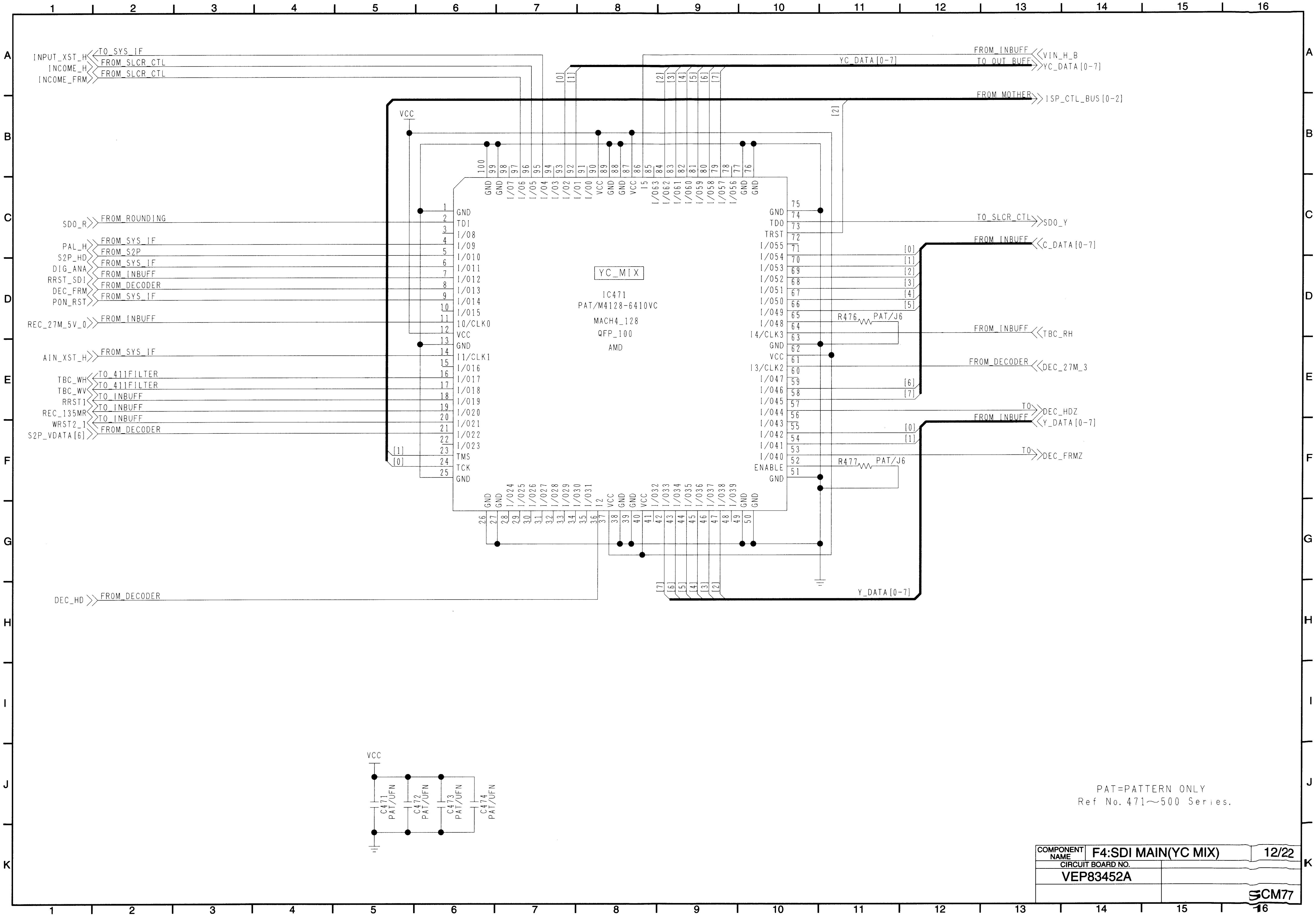

IC445
PAT/MC10H124MR
VCC
EE_CLK
FROM_EE_THROUGH
BIN
AIN
CIN
DIN
R454 PAT/J6
R455 PAT/J6
TO_MOTHER
EE_CLK_P
EE_CLK_N
R452 PAT/J6
R453 PAT/J6
C442 PAT/UBV
C441 PAT/UBV
VEE
GND
REC_27M_3V
FROM_INBUFF
YC_DATA[0-7]
FROM_YC_MIX
DLYD_M[0-7]
FROM_DLYFIFO
DIG_ANA
FROM_SYS_IF
IC441
PAT/SN74ALS257AS
IC442
PAT/SN74ALS257AS
R441 PAT/J6
IC444
PAT/T74LCX574FEL
CLK
OC
R443 PAT/J6
R444 22/J6
R445 22/J6
R446 22/J6
R447 22/J6
R448 22/J6
R449 22/J6
R450 22/J6
R451 22/J6
REC_MDATA_DV_CTL[0-7]
TO_MOTHER
DIF_DVMAIN_CS_L
DIF_DVMAIN_INT_L
DVMAIN_DIF_INT_L
DVMAIN_DIF_BUSY_L
DIF_DVSUB_CS_L
DVSUB_DIF_INT_L
DIF_DVSUB_INT_L
DVSUB_DIF_BUSY_L
FROM_SUB_CON-1
IC443
SN74ALS244NS
CHAR_GATE
CHAR_DATA
INCOME_CF0
INCOME_CF1
INCOME_H
INCOME_FRM
EE_FRM
FROM_CHAR_ADD
FROM_SLCR_CTL
R456 22/J6
R457 22/J6
R458 22/J6
R459 22/J6
R460 22/J6
R461 22/J6
R462 22/J6
CHAR_GATE_L
CHAR_DATA_H
INCOM_CF0
INCOM_CF1
INCOM_H
INCOM_FRM
EE_FRM1
R442 100/J6
C443 PAT/UFN
C444 PAT/UFN
C445 0.1/UFN
C446 PAT/UFN
+3V

PAT=PATTERN ONLY
Ref No. 441~470 Series.

COMPONENT NAME	F4:SDI MAIN(OUT BUFF)	11/22
CIRCUIT BOARD NO.		
VEP83452A		
		SCM76

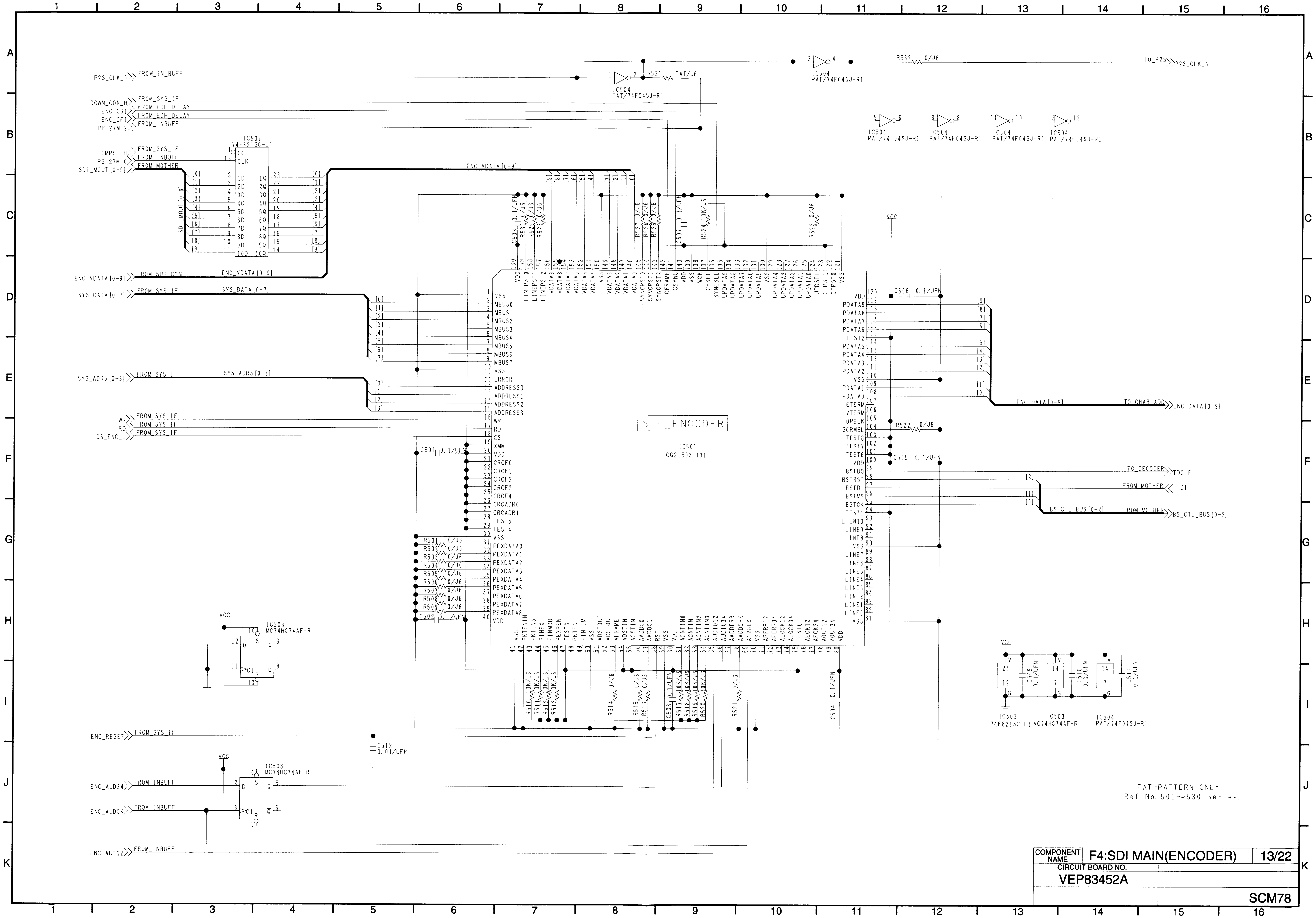
KR3W29(11/22)

KR3W29(12/22)


INPUT_XST_H
TO_SYS_IF
INCOME_H
FROM_SLCR_CTL
INCOME_FRM
FROM_SLCR_CTL
SDO_R
FROM_ROUNDING
PAL_H
FROM_SYS_IF
S2P_HD
FROM_S2P
DIG_ANA
FROM_SYS_IF
RRST_SDI
FROM_INBUFF
DEC_FRM
FROM_DECODER
PON_RST
FROM_SYS_IF
REC_27M_5V_0
FROM_INBUFF
AIN_XST_H
FROM_SYS_IF
TBC_WH
TO_411FILTER
TBC_WV
TO_411FILTER
RRST1
TO_INBUFF
REC_135MR
TO_INBUFF
WRST2_1
TO_INBUFF
S2P_VDATA[6]
FROM_DECODER
DEC_HD
FROM_DECODER
VCC
YC_MIX
IC471
PAT/M4128-6410VC
MACH4_128
QFP_100
AMD
GND
TDI
I/O8
I/O9
I/O10
I/O11
I/O12
I/O13
I/O14
I/O15
I0/CLK0
VCC
GND
I1/CLK1
I/O16
I/O17
I/O18
I/O19
I/O20
I/O21
I/O22
I/O23
TMS
TCK
GND
GND
TDO
TRST
I/O55
I/O54
I/O53
I/O52
I/O51
I/O50
I/O49
I/O48
I4/CLK3
GND
VCC
I3/CLK2
I/O47
I/O46
I/O45
I/O44
I/O43
I/O42
I/O41
I/O40
ENABLE
GND
FROM_INBUFF
VIN_H_B
YC_DATA[0-7]
TO_OUT_BUFF
YC_DATA[0-7]
FROM_MOTHER
ISP_CTL_BUS[0-2]
TO_SLCR_CTL
SDO_Y
FROM_INBUFF
C_DATA[0-7]
R476
PAT/J6
FROM_INBUFF
TBC_RH
FROM_DECODER
DEC_27M_3
TO
DEC_HDZ
FROM_INBUFF
Y_DATA[0-7]
R477
PAT/J6
TO
DEC_FRMZ
Y_DATA[0-7]
C471 PAT/UFN
C472 PAT/UFN
C473 PAT/UFN
C474 PAT/UFN
PAT=PATTERN ONLY
Ref No. 471〜500 Series.

COMPONENT NAME	F4:SDI MAIN(YC MIX)	12/22
CIRCUIT BOARD NO.		
VEP83452A		

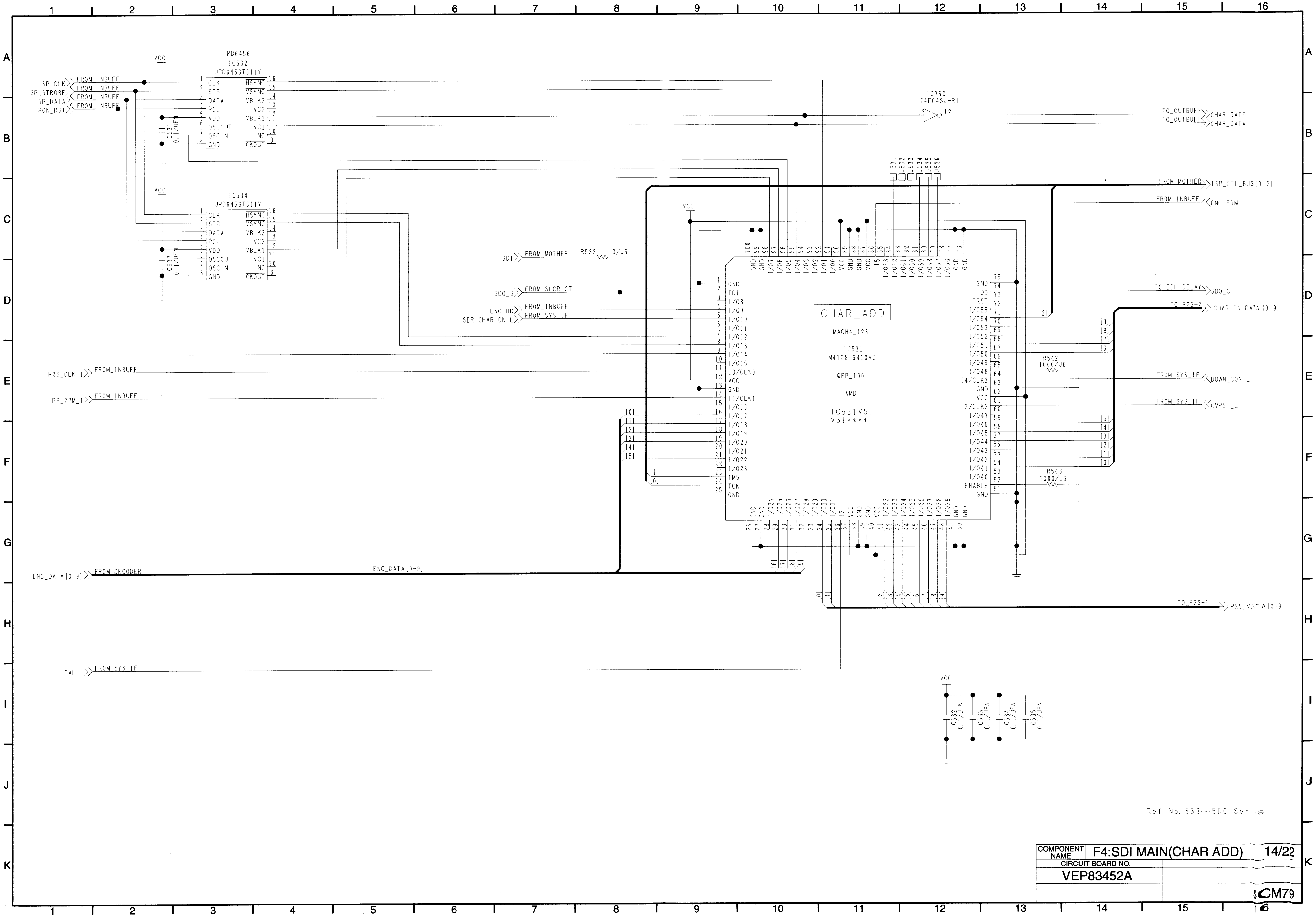
SCM77


P2S_CLK_0 FROM_IN_BUFF
DOWN_CON_H FROM_SYS_IF
ENC_CS1 FROM_EDH_DELAY
ENC_CF1 FROM_EDH_DELAY
PB_27M_2 FROM_INBUFF
CMPST_H FROM_SYS_IF
PB_27M_0 FROM_INBUFF
SDI_MOUT[0-9] FROM_MOTHER
IC502 74F821SC-L1
ENC_VDATA[0-9]
ENC_VDATA[0-9] FROM_SUB_CON
SYS_DATA[0-7] FROM_SYS_IF
SYS_ADRS[0-3] FROM_SYS_IF
WR FROM_SYS_IF
RD FROM_SYS_IF
CS_ENC_L FROM_SYS_IF
IC504 PAT/74F04SJ-R1
R531 PAT/J6
R532 0/J6
TO_P2S P2S_CLK_N
SIF_ENCODER
IC501 CG21503-131
C501 0.1/UFN
C502 0.1/UFN
C505 0.1/UFN
C506 0.1/UFN
C507 0.1/UFN
C508 0.1/UFN
R501–R509 0/J6
R522 0/J6
R523 0/J6
R524 10K/J6
R510–R513 10K/J6
R514 0/J6
R515 0/J6
R516 0/J6
C503 0.1/UFN
R517–R520 10K/J6
R521 0/J6
C504 0.1/UFN
VCC
ENC_DATA[0-9] TO_CHAR_ADD ENC_DATA[0-9]
TO_DECODER TDO_E
FROM_MOTHER TDI
BS_CTL_BUS[0-2] FROM_MOTHER BS_CTL_BUS[0-2]
IC503 MC74HC74AF-R
ENC_RESET FROM_SYS_IF
C512 0.01/UFN
ENC_AUD34 FROM_INBUFF
ENC_AUDCK FROM_INBUFF
ENC_AUD12 FROM_INBUFF
C509 0.1/UFN
C510 0.1/UFN
C511 0.1/UFN
IC502 74F821SC-L1
IC503 MC74HC74AF-R
IC504 PAT/74F04SJ-R1

PAT=PATTERN ONLY
Ref No. 501～530 Series.

COMPONENT NAME	F4:SDI MAIN(ENCODER)	13/22
CIRCUIT BOARD NO.		
VEP83452A		
		SCM78

KR3W29(13/22)


PD6456
IC532
UPD6456T611Y
IC534
UPD6456T611Y
CLK
STB
DATA
PCL
VDD
OSCOUT
OSCIN
GND
HSYNC
VSYNC
VBLK2
VC2
VBLK1
VC1
NC
CKOUT
VCC
C531 0.1/UFN
C537 0.1/UFN
SP_CLK
SP_STROBE
SP_DATA
PON_RST
FROM_INBUFF
IC760
74F04SJ-R1
TO_OUTBUFF
CHAR_GATE
CHAR_DATA
J531
J532
J533
J534
J535
J536
FROM_MOTHER
ISP_CTL_BUS[0-2]
ENC_FRM
SDI
R533
0/J6
SDO_S
FROM_SLCR_CTL
ENC_HD
SER_CHAR_ON_L
FROM_SYS_IF
CHAR_ADD
MACH4_128
IC531
M4128-6410VC
QFP_100
AMD
IC531VSI
VSI****
TO_EDH_DELAY
SDO_C
TO_P2S-2
CHAR_ON_DATA[0-9]
R542
1000/J6
DOWN_CON_L
CMPST_L
R543
1000/J6
P2S_CLK_I
PB_27M_I
ENC_DATA[0-9]
FROM_DECODER
ENC_DATA[0-9]
TO_P2S-1
P2S_VDATA[0-9]
PAL_L
C532 0.1/UFN
C533 0.1/UFN
C534 0.1/UFN
C535 0.1/UFN
GND
TDI
TDO
TRST
TMS
TCK
ENABLE
10/CLK0
11/CLK1
12
13/CLK2
14/CLK3
A B C D E F G H I J K
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

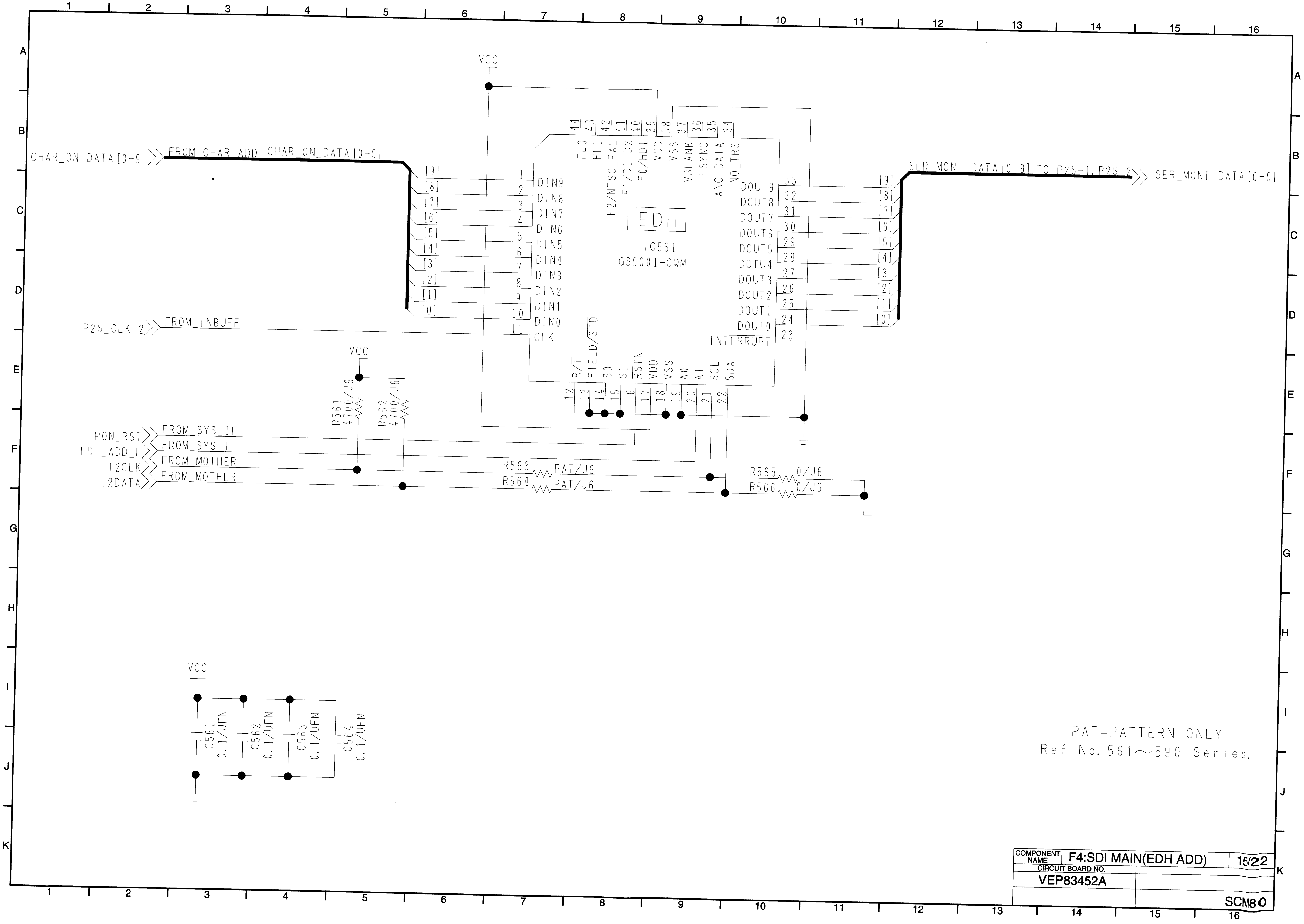
Ref No. 533～560 Series.

COMPONENT NAME	F4:SDI MAIN(CHAR ADD)	14/22
CIRCUIT BOARD NO.		
VEP83452A		

CM79

16

KR3W29(14/22)

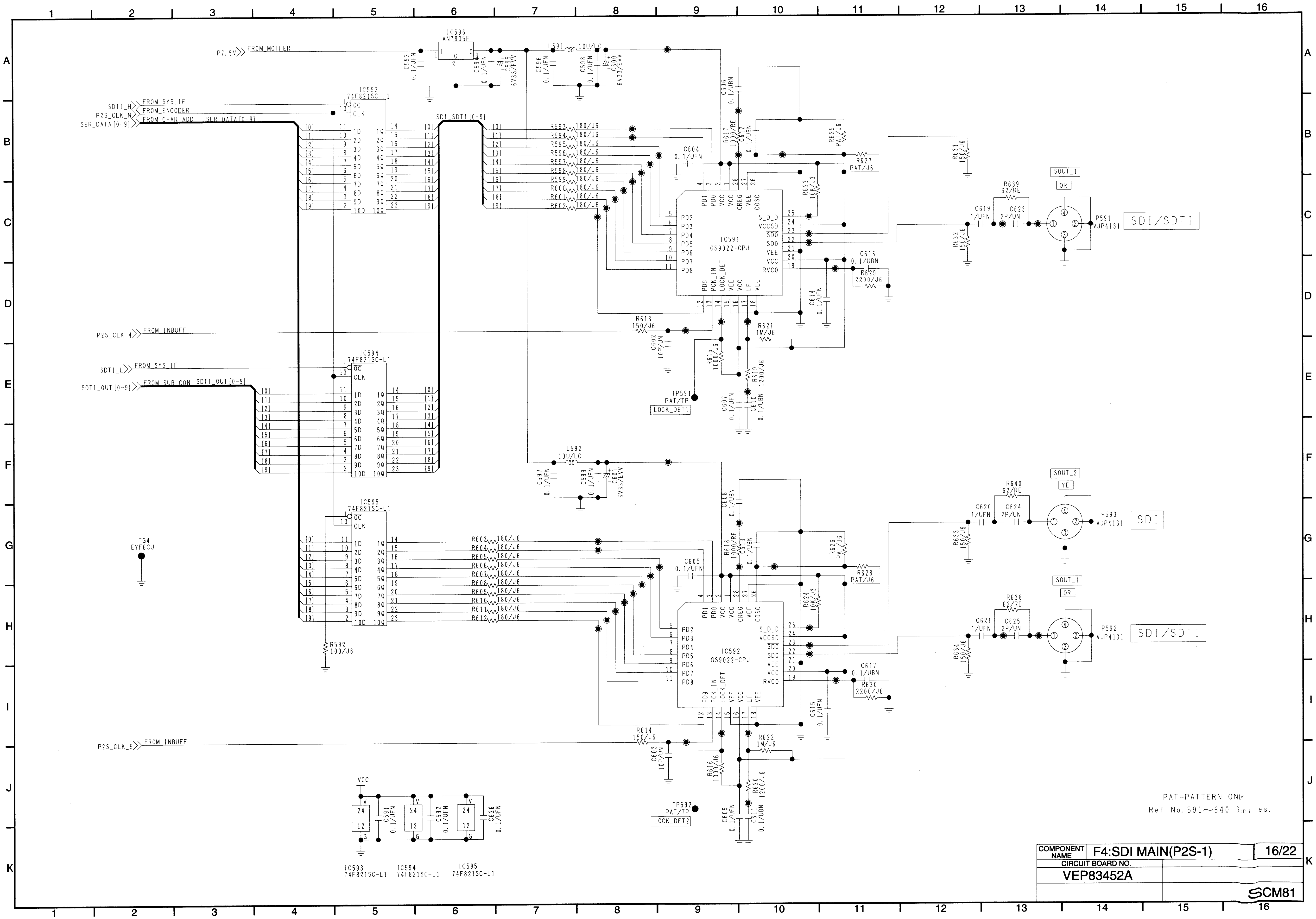

VCC
EDH
IC561
GS9001-CQM
CHAR_ON_DATA[0-9]
FROM CHAR ADD CHAR_ON_DATA[0-9]
[9]
[8]
[7]
[6]
[5]
[4]
[3]
[2]
[1]
[0]
DIN9
DIN8
DIN7
DIN6
DIN5
DIN4
DIN3
DIN2
DIN1
DIN0
CLK
P2S_CLK_2
FROM_INBUFF
FL0
FL1
F2/NTSC_PAL
F1/D1_D2
F0/HD1
VDD
VSS
VBLANK
HSYNC
ANC_DATA
NO_TRS
DOUT9
DOUT8
DOUT7
DOUT6
DOUT5
DOTU4
DOUT3
DOUT2
DOUT1
DOUT0
INTERRUPT
R/T
FIELD/STD
S0
S1
RSTN
VDD
VSS
A0
A1
SCL
SDA
SER_MONI_DATA[0-9] TO P2S-1, P2S-2
SER_MONI_DATA[0-9]
R561 4700/J6
R562 4700/J6
PON_RST
EDH_ADD_L
I2CLK
I2DATA
FROM_SYS_IF
FROM_SYS_IF
FROM_MOTHER
FROM_MOTHER
R563 PAT/J6
R564 PAT/J6
R565 0/J6
R566 0/J6
C561 0.1/UFN
C562 0.1/UFN
C563 0.1/UFN
C564 0.1/UFN

PAT=PATTERN ONLY
Ref No. 561～590 Series.

COMPONENT NAME	F4:SDI MAIN(EDH ADD)	15/22
CIRCUIT BOARD NO.		
VEP83452A		

SCN80

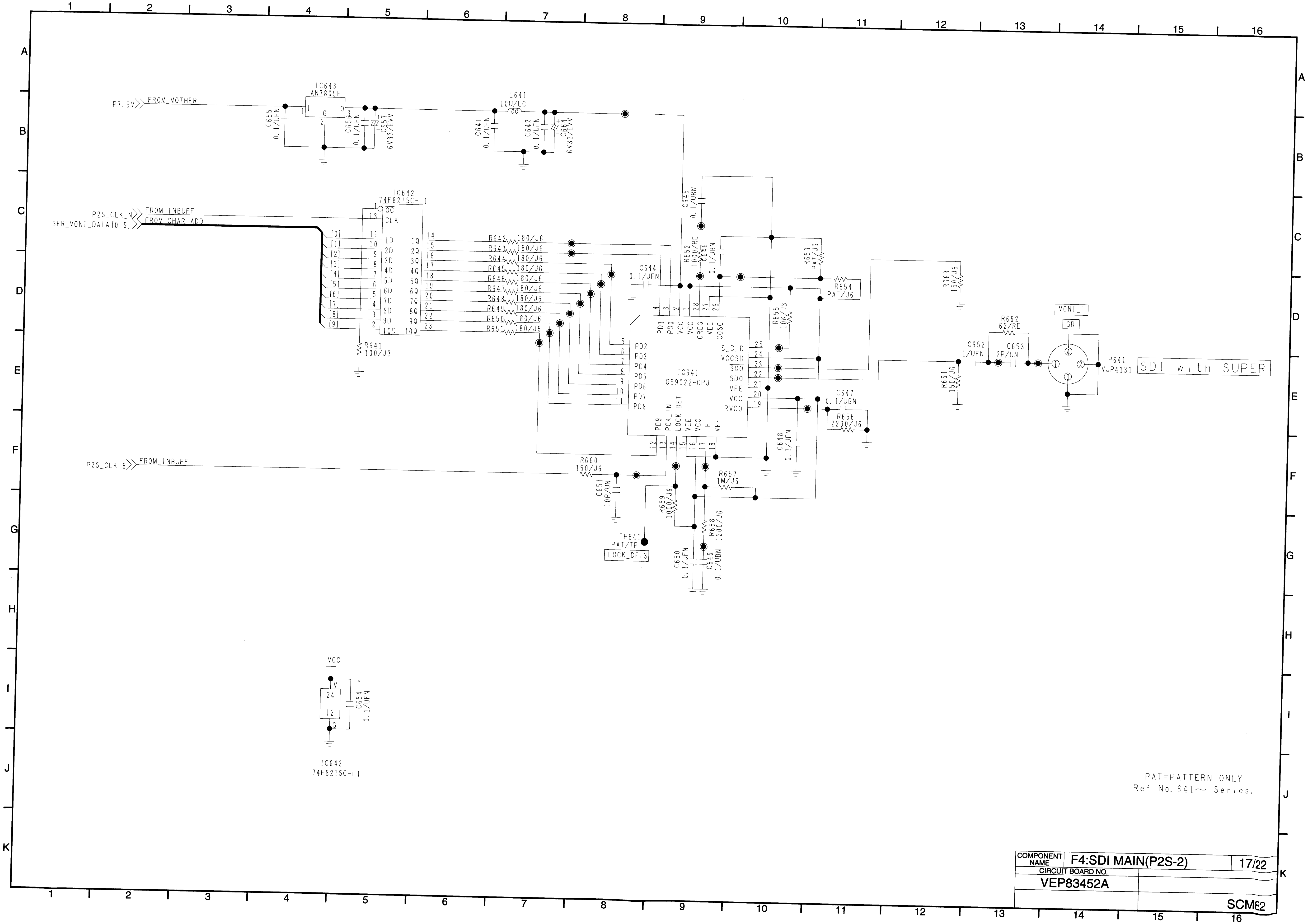
KR3W29(15/22)


P7.5V FROM MOTHER
IC596 AN7805F
C593 0.1/UFN
C594 0.1/UFN
C595 6V33/EVV
C596 0.1/UFN
L591 10U/LC
C598 0.1/UFN
C600 6V33/EVV
IC593 74F821SC-L1
SDTI_H FROM SYS IF
P2S_CLK_N FROM ENCODER
SER_DATA[0-9] FROM CHAR ADD SER_DATA[0-9]
SDI_SDTI[0-9]
OC
CLK
R593 180/J6
R594 180/J6
R595 180/J6
R596 180/J6
R597 180/J6
R598 180/J6
R599 180/J6
R600 180/J6
R601 180/J6
R602 180/J6
C606 0.1/UBN
R617 1000/RE
C612 0.1/UBN
C604 0.1/UFN
R625 PAT/J6
R627 PAT/J6
R623 10K/J3
R631 150/J6
IC591 GS9022-CPJ
PD1 PD0 VCC VCC CREG VEE COSC
PD2 PD3 PD4 PD5 PD6 PD7 PD8
S_D_D VCCSD SDO SDO VEE VCC RVCO
PD9 PCK_IN LOCK_DET VEE VCC LF VEE
R639 62/RE
C619 1/UFN
C623 2P/UN
SOUT_1
OR
P591 VJP4131
SDI/SDTI
R632 150/J6
C616 0.1/UBN
R629 2200/J6
C614 0.1/UFN
P2S_CLK_4 FROM INBUFF
R613 150/J6
C602 10P/UN
R621 1M/J6
R615 1000/J6
R619 1200/J6
TP591 PAT/TP
LOCK_DET1
C607 0.1/UFN
C610 0.1/UBN
IC594 74F821SC-L1
SDTI_L FROM SYS IF
SDTI_OUT[0-9] FROM SUB CON SDTI_OUT[0-9]
L592 10U/LC
C597 0.1/UFN
C599 0.1/UFN
C601 6V33/EVV
IC595 74F821SC-L1
TG4 EYF6CU
R603 180/J6
R604 180/J6
R605 180/J6
R606 180/J6
R607 180/J6
R608 180/J6
R609 180/J6
R610 180/J6
R611 180/J6
R612 180/J6
R592 100/J6
C608 0.1/UBN
R618 1000/RE
C613 0.1/UBN
C605 0.1/UFN
R626 PAT/J6
R628 PAT/J6
R624 10K/J3
R633 150/J6
R640 62/RE
C620 1/UFN
C624 2P/UN
SOUT_2
YE
P593 VJP4131
SDI
R638 62/RE
C621 1/UFN
C625 2P/UN
SOUT_1
OR
P592 VJP4131
SDI/SDTI
R634 150/J6
IC592 GS9022-CPJ
C617 0.1/UBN
R630 2200/J6
C615 0.1/UFN
P2S_CLK_5 FROM INBUFF
R614 150/J6
C603 10P/UN
R622 1M/J6
R616 1000/J6
R620 1200/J6
TP592 PAT/TP
LOCK_DET2
C609 0.1/UFN
C611 0.1/UBN
VCC
C591 0.1/UFN
C592 0.1/UFN
C626 0.1/UFN
IC593 74F821SC-L1
IC594 74F821SC-L1
IC595 74F821SC-L1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

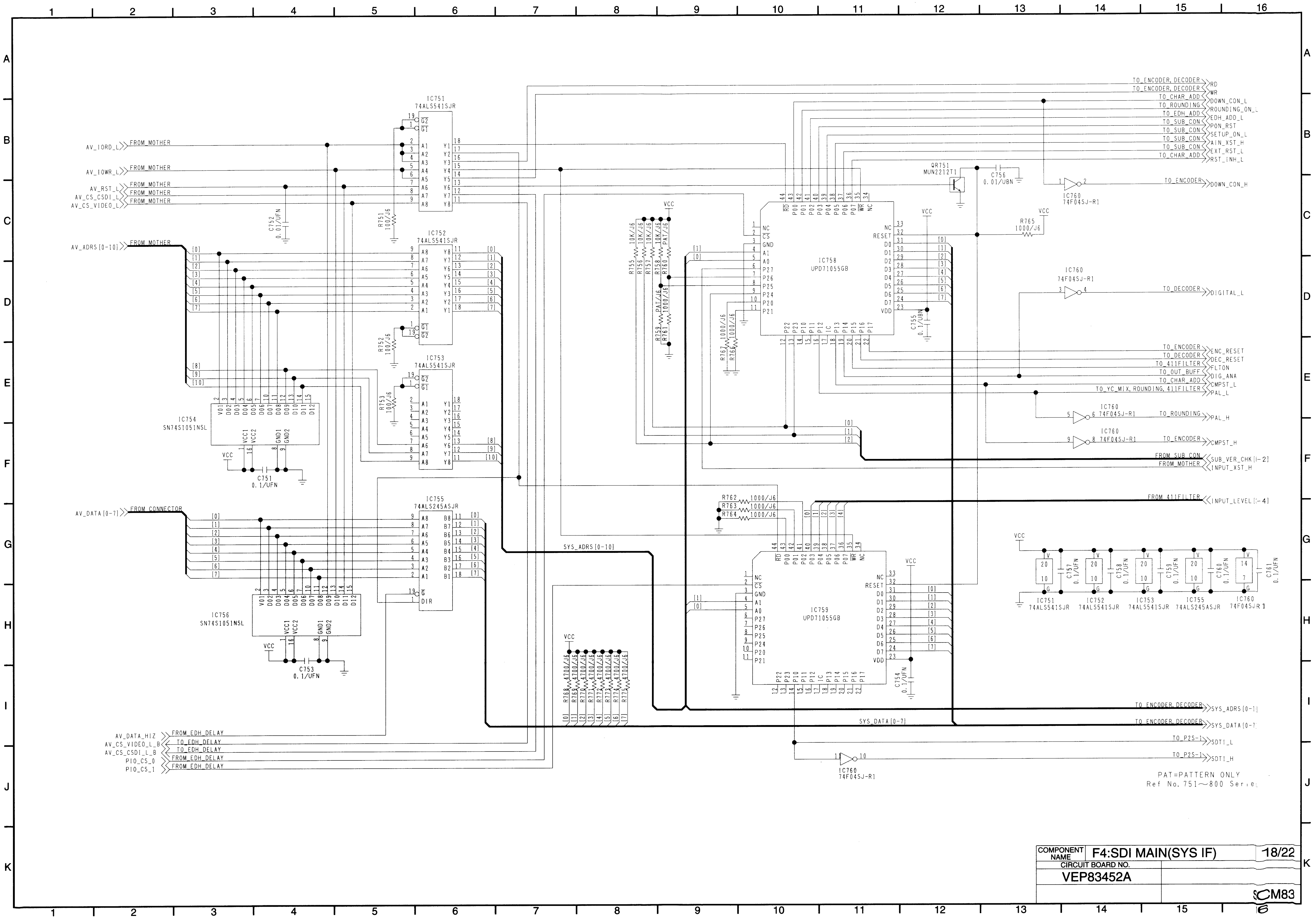
PAT=PATTERN ONLY
Ref No. 591～640 Series.

COMPONENT NAME	F4:SDI MAIN(P2S-1)	16/22
CIRCUIT BOARD NO.		
VEP83452A		
	SCM81	

KR3W29(16/22)


P7.5V
FROM_MOTHER
IC643
AN7805F
C655 0.1/UFN
C656 0.1/UFN
C657 6V33/EVV
L641 10U/LC
C641 0.1/UFN
C642 0.1/UFN
C643 6V33/EVV
IC642
74F821SC-L1
P2S_CLK_N
FROM_INBUFF
SER_MONI_DATA[0-9]
FROM_CHAR_ADD
OC
CLK
R641 100/J3
R642 180/J6
R643 180/J6
R644 180/J6
R645 180/J6
R646 180/J6
R647 180/J6
R648 180/J6
R649 180/J6
R650 180/J6
R651 180/J6
C644 0.1/UFN
C645 0.1/UBN
C646 0.1/UBN
R652 1000/RE
R653 PAT/J6
R654 PAT/J6
R655 10K/J3
IC641
GS9022-CPJ
PD0 PD1 PD2 PD3 PD4 PD5 PD6 PD7 PD8 PD9
PCK_IN
LOCK_DET
VCC VEE CREG COSC LF
S_D_D
VCCSD
SDO
RVCO
C647 0.1/UBN
C648 0.1/UFN
R656 2200/J6
R657 1M/J6
R658 1200/J6
R659 1000/J6
C649 0.1/UBN
C650 0.1/UFN
P2S_CLK_6
FROM_INBUFF
R660 150/J6
C651 10P/UN
TP641 PAT/TP
LOCK_DET3
R663 150/J6
R661 150/J6
C652 1/UFN
R662 62/RE
C653 2P/UN
MONI_1
GR
P641 VJP4131
SDI with SUPER
VCC
C654 0.1/UFN
IC642
74F821SC-L1
PAT=PATTERN ONLY
Ref No. 641～ Series.

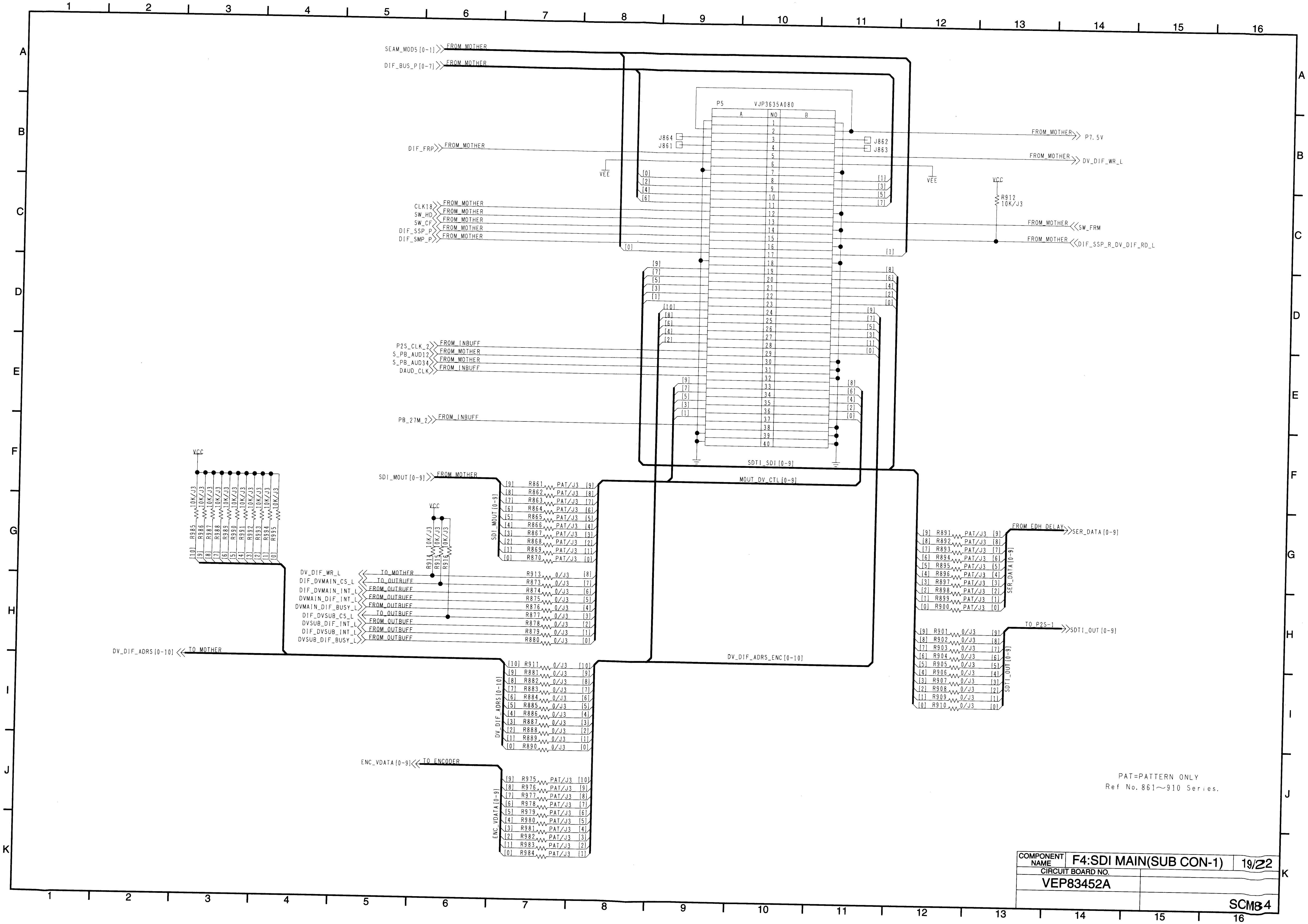
COMPONENT NAME	F4:SDI MAIN(P2S-2)	17/22
CIRCUIT BOARD NO.		
VEP83452A		
		SCM82


IC751
74ALS541SJR
IC752
74ALS541SJR
IC753
74ALS541SJR
IC754
SN74S1051NSL
IC755
74ALS245ASJR
IC756
SN74S1051NSL
IC758
UPD71055GB
IC759
UPD71055GB
IC760
74F04SJ-R1
QR751
MUN2212T1
C751
0.1/UFN
C752
0.01/UFN
C753
0.1/UFN
C754
0.1/UFN
C755
0.1/UBN
C756
0.01/UBN
R751
100/J6
R752
100/J6
R753
100/J6
R765
1000/J6
R762 1000/J6
R763 1000/J6
R764 1000/J6
VCC
AV_IORD_L
AV_IOWR_L
AV_RST_L
AV_CS_CSDI_L
AV_CS_VIDEO_L
FROM MOTHER
AV_ADRS[0-10]
AV_DATA[0-7]
FROM CONNECTOR
SYS_ADRS[0-10]
SYS_DATA[0-7]
AV_DATA_HIZ
AV_CS_VIDEO_L_B
AV_CS_CSDI_L_B
PIO_CS_0
PIO_CS_1
FROM EDH DELAY
TO EDH DELAY
TO ENCODER,DECODER
TO CHAR ADD
TO ROUNDING
TO EDH ADD
TO SUB CON
TO ENCODER
TO DECODER
TO 411FILTER
TO OUT BUFF
TO YC MIX,ROUNDING,411FILTER
FROM SUB CON
FROM 411FILTER
TO P2S-1
RD
WR
DOWN_CON_L
ROUNDING_ON_L
EDH_ADD_L
PON_RST
SETUP_ON_L
AIN_XST_H
EXT_RST_L
RST_INH_L
DOWN_CON_H
DIGITAL_L
ENC_RESET
DEC_RESET
FLTON
DIG_ANA
CMPST_L
PAL_L
PAL_H
CMPST_H
SUB_VER_CHK[1-2]
INPUT_XST_H
INPUT_LEVEL[1-4]
SYS_ADRS[0-1]
SYS_DATA[0-7]
SDTI_L
SDTI_H
PAT=PATTERN ONLY
Ref No.751~800 Series
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

COMPONENT NAME	F4:SDI MAIN(SYS IF)	18/22
CIRCUIT BOARD NO.		
VEP83452A		

CM83

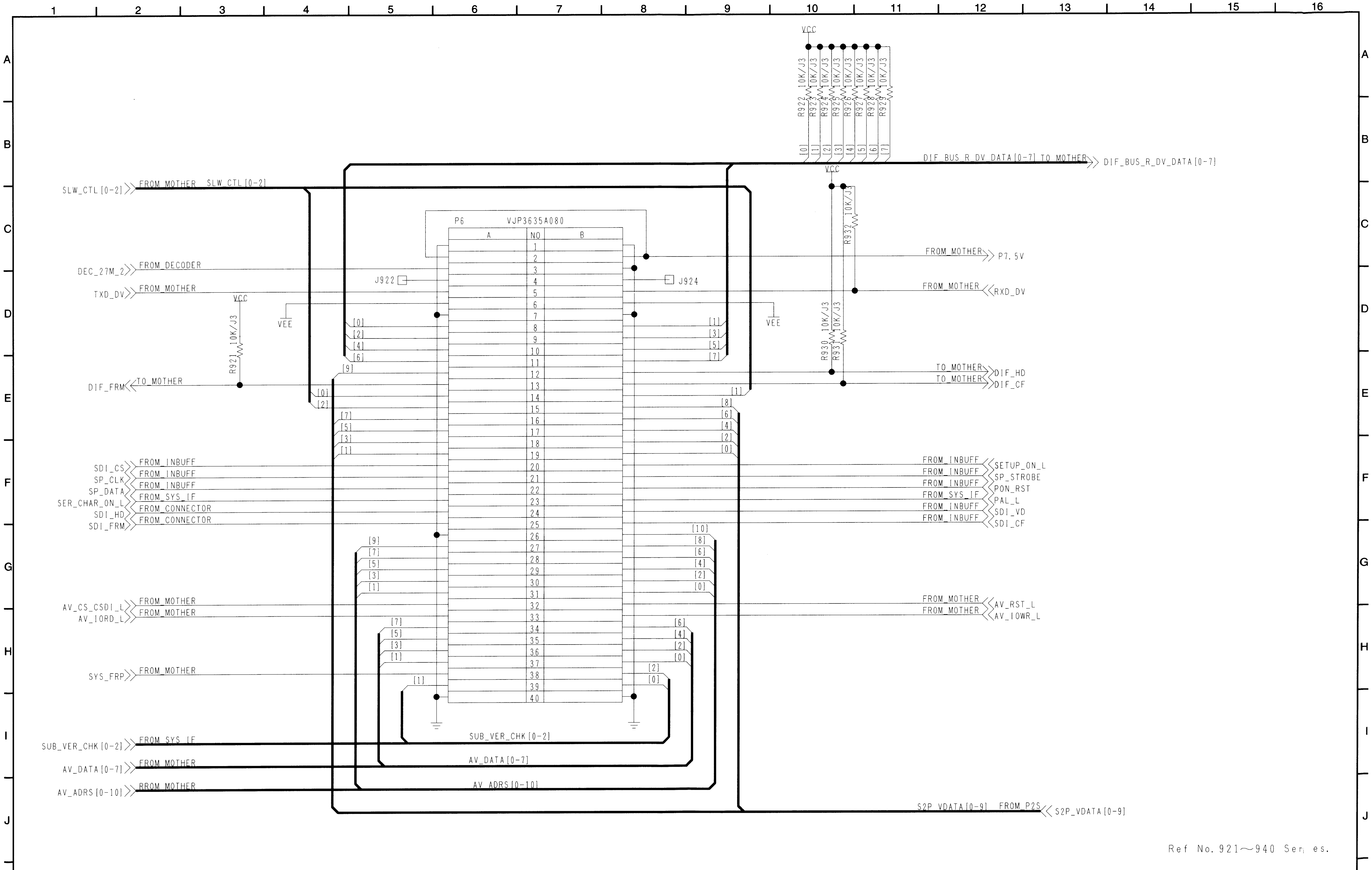
KR3W29(18/22)


SEAM_MODS[0-1] FROM MOTHER
DIF_BUS_P[0-7] FROM MOTHER
P5 VJP3635A080
A NO B
J864
J861
J862
J863
DIF_FRP FROM MOTHER
VEE
FROM MOTHER P7.5V
FROM MOTHER DV_DIF_WR_L
VCC
R912 10K/J3
CLK18 FROM MOTHER
SW_HD FROM MOTHER
SW_CF FROM MOTHER
DIF_SSP_P FROM MOTHER
DIF_SMP_P FROM MOTHER
FROM MOTHER SW_FRM
FROM MOTHER DIF_SSP_R_DV_DIF_RD_L
P2S_CLK_2 FROM INBUFF
S_PB_AUD12 FROM MOTHER
S_PB_AUD34 FROM MOTHER
DAUD_CLK FROM INBUFF
PB_27M_2 FROM INBUFF
SDTI_SDI[0-9]
MOUT_DV_CTL[0-9]
SDI_MOUT[0-9] FROM MOTHER
R861 PAT/J3 … R870 PAT/J3
R985 … R995 10K/J3
R914 R915 R916 10K/J3
DV_DIF_WR_L TO MOTHER
DIF_DVMAIN_CS_L TO OUTBUFF
DIF_DVMAIN_INT_L FROM OUTBUFF
DVMAIN_DIF_INT_L FROM OUTBUFF
DVMAIN_DIF_BUSY_L FROM OUTBUFF
DIF_DVSUB_CS_L TO OUTBUFF
DVSUB_DIF_INT_L FROM OUTBUFF
DIF_DVSUB_INT_L FROM OUTBUFF
DVSUB_DIF_BUSY_L FROM OUTBUFF
R913 0/J3
R873 … R880 0/J3
DV_DIF_ADRS[0-10] TO MOTHER
DV_DIF_ADRS_ENC[0-10]
R911 0/J3
R881 … R890 0/J3
ENC_VDATA[0-9] TO ENCODER
R975 … R984 PAT/J3
SER_DATA[0-9] FROM EDH DELAY
R891 … R900 PAT/J3
SDTI_OUT[0-9] TO P2S-1
R901 … R910 0/J3

PAT=PATTERN ONLY
Ref No. 861～910 Series.

COMPONENT NAME F4:SDI MAIN(SUB CON-1) 19/22
CIRCUIT BOARD NO.
VEP83452A
SCM84

KR3W29(19/22)

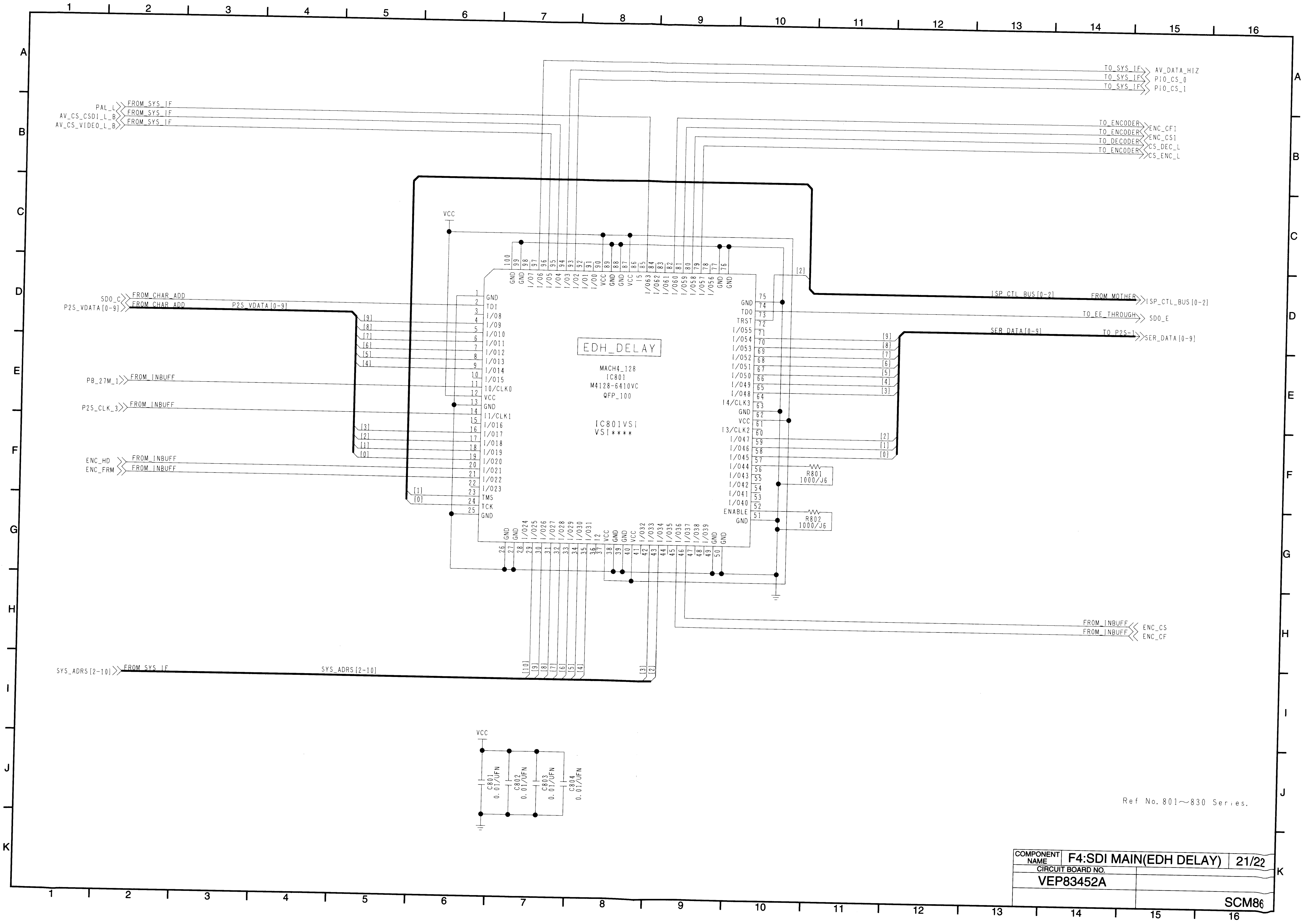

P6 VJP3635A080
A
NO
B
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
VCC
R922 10K/J3
R923 10K/J3
R924 10K/J3
R925 10K/J3
R926 10K/J3
R927 10K/J3
R928 10K/J3
R929 10K/J3
[0] [1] [2] [3] [4] [5] [6] [7]
DIF_BUS_R_DV_DATA[0-7] TO MOTHER
DIF_BUS_R_DV_DATA[0-7]
SLW_CTL[0-2]
FROM MOTHER SLW_CTL[0-2]
DEC_27M_2
FROM DECODER
TXD_DV
FROM MOTHER
VCC
R921 10K/J3
VEE
J922
J924
VEE
DIF_FRM
TO MOTHER
FROM MOTHER
P7.5V
VCC
R932 10K/J3
FROM MOTHER
RXD_DV
R930 10K/J3
R931 10K/J3
TO MOTHER
DIF_HD
TO MOTHER
DIF_CF
SDI_CS
FROM INBUFF
SP_CLK
FROM INBUFF
SP_DATA
FROM INBUFF
SER_CHAR_ON_L
FROM SYS_IF
SDI_HD
FROM CONNECTOR
SDI_FRM
FROM CONNECTOR
FROM INBUFF
SETUP_ON_L
FROM INBUFF
SP_STROBE
FROM INBUFF
PON_RST
FROM SYS_IF
PAL_L
FROM INBUFF
SDI_VD
FROM INBUFF
SDI_CF
AV_CS_CSDI_L
FROM MOTHER
AV_IORD_L
FROM MOTHER
FROM MOTHER
AV_RST_L
FROM MOTHER
AV_IOWR_L
SYS_FRP
FROM MOTHER
SUB_VER_CHK[0-2]
FROM SYS_IF
SUB_VER_CHK[0-2]
AV_DATA[0-7]
FROM MOTHER
AV_DATA[0-7]
AV_ADRS[0-10]
RROM MOTHER
AV_ADRS[0-10]
S2P_VDATA[0-9] FROM P2S
S2P_VDATA[0-9]
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

Ref No. 921～940 Series.

COMPONENT NAME	F4:SDI MAIN(SUB CON-2)	20/22
CIRCUIT BOARD NO.		
VEP83452A		

SCM85

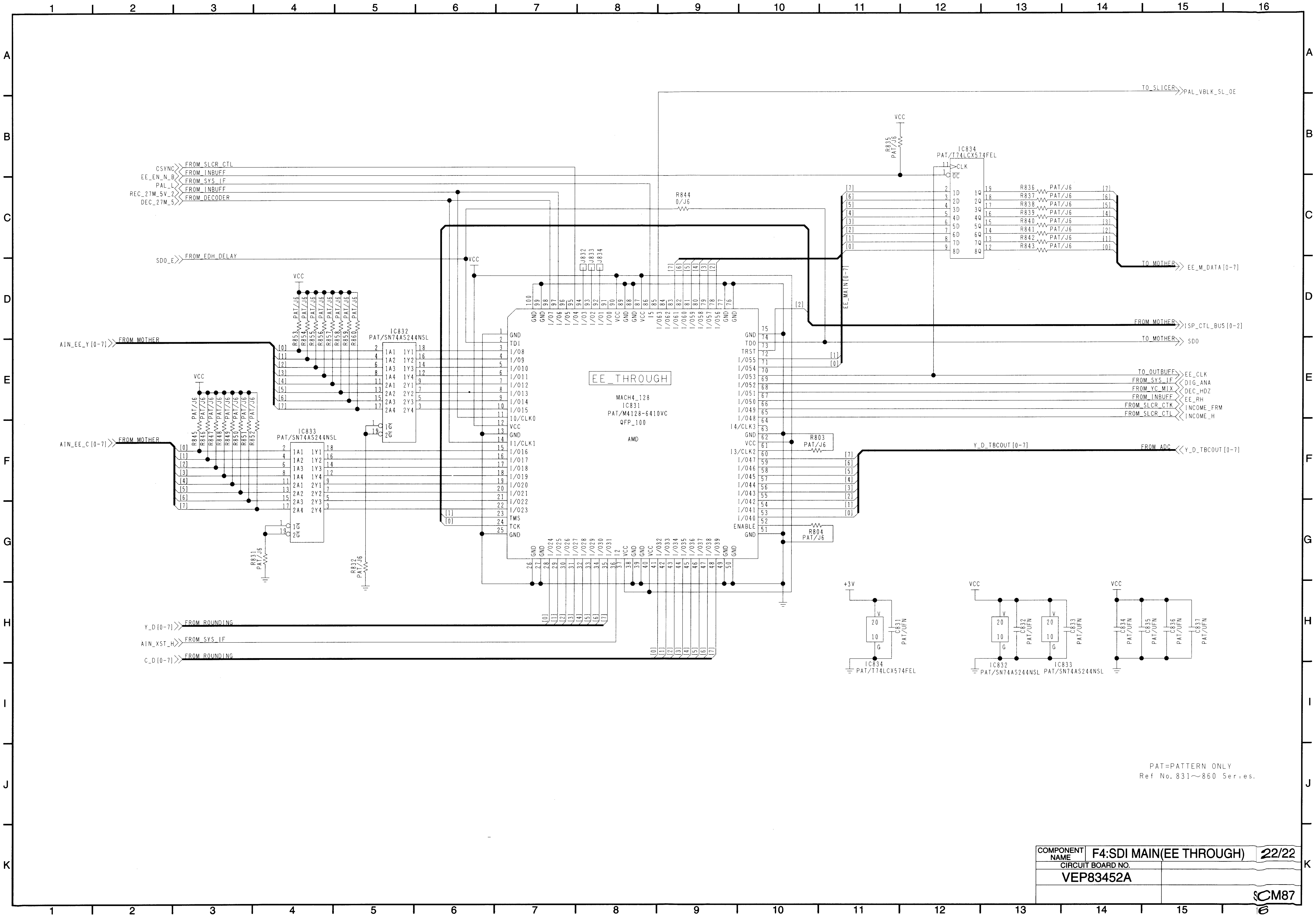
KR3W29(20/22)


EDH_DELAY
MACH4_128
IC801
M4128-6410VC
QFP_100
IC801VSI
VSI****
PAL_L
AV_CS_CSDI_L_B
AV_CS_VIDEO_L_B
FROM_SYS_IF
SDO_C
P2S_VDATA[0-9]
FROM_CHAR_ADD
P2S_VDATA[0-9]
PB_27M_1
FROM_INBUFF
P2S_CLK_3
ENC_HD
ENC_FRM
SYS_ADRS[2-10]
FROM_SYS_IF
SYS_ADRS[2-10]
TO_SYS_IF
AV_DATA_HIZ
PIO_CS_0
PIO_CS_1
TO_ENCODER
TO_DECODER
ENC_CF1
ENC_CS1
CS_DEC_L
CS_ENC_L
ISP_CTL_BUS[0-2]
FROM_MOTHER
TO_EE_THROUGH
SDO_E
SER_DATA[0-9]
TO_P2S-1
FROM_INBUFF
ENC_CS
ENC_CF
R801
1000/J6
R802
1000/J6
VCC
C801 0.01/UFN
C802 0.01/UFN
C803 0.01/UFN
C804 0.01/UFN
GND
TDI
TDO
TRST
TMS
TCK
ENABLE
10/CLK0
I1/CLK1
I3/CLK2
I4/CLK3

Ref No. 801～830 Series.

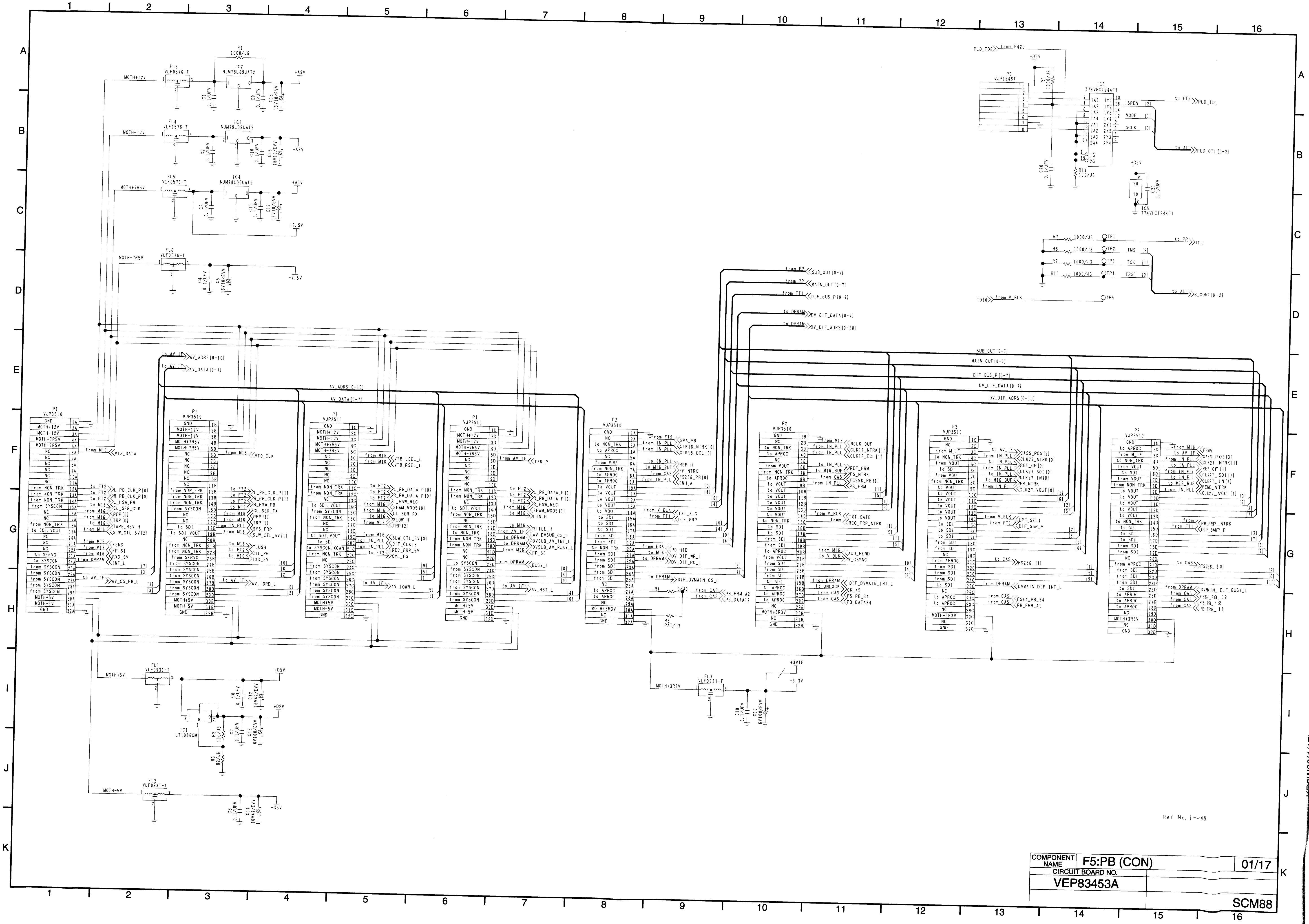
COMPONENT NAME	F4:SDI MAIN(EDH DELAY)	21/22
CIRCUIT BOARD NO.		
VEP83452A		
		SCM86

KR3W29(21/22)


EE_THROUGH
MACH4_128
IC831
PAT/M4128-6410VC
QFP_100
AMD
IC832
PAT/SN74AS244NSL
IC833
PAT/SN74AS244NSL
IC834
PAT/T74LCX574FEL
CSYNC
FROM_SLCR_CTL
EE_EN_N_B
FROM_INBUFF
PAL_L
FROM_SYS_IF
REC_27M_5V_2
FROM_INBUFF
DEC_27M_5
FROM_DECODER
SDO_E
FROM_EDH_DELAY
AIN_EE_Y[0-7]
FROM MOTHER
AIN_EE_C[0-7]
FROM MOTHER
Y_D[0-7]
FROM ROUNDING
AIN_XST_H
FROM SYS_IF
C_D[0-7]
FROM ROUNDING
TO_SLICER
PAL_VBLK_SL_OE
TO MOTHER
EE_M_DATA[0-7]
FROM MOTHER
ISP_CTL_BUS[0-2]
TO_MOTHER
SDO
TO_OUTBUFF
EE_CLK
FROM_SYS_IF
DIG_ANA
FROM_YC_MIX
DEC_HDZ
FROM_INBUFF
EE_RH
FROM_SLCR_CTK
INCOME_FRM
FROM_SLCR_CTL
INCOME_H
Y_D_TBCOUT[0-7]
FROM ADC
Y_D_TBCOUT[0-7]
EE_MAIN[0-7]
R844 0/J6
R835 PAT/J6
R836–R843 PAT/J6
R845–R852 PAT/J6
R853–R860 PAT/J6
R803 PAT/J6
R804 PAT/J6
R831 PAT/J6
R832 PAT/J6
J832 J833 J834
VCC
+3V
C831 PAT/UFN
C832 PAT/UFN
C833 PAT/UFN
C834 PAT/UFN
C835 PAT/UFN
C836 PAT/UFN
C837 PAT/UFN
IC834 PAT/T74LCX574FEL
IC832 PAT/SN74AS244NSL
IC833 PAT/SN74AS244NSL
TDI
TDO
TRST
TMS
TCK
ENABLE
GND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

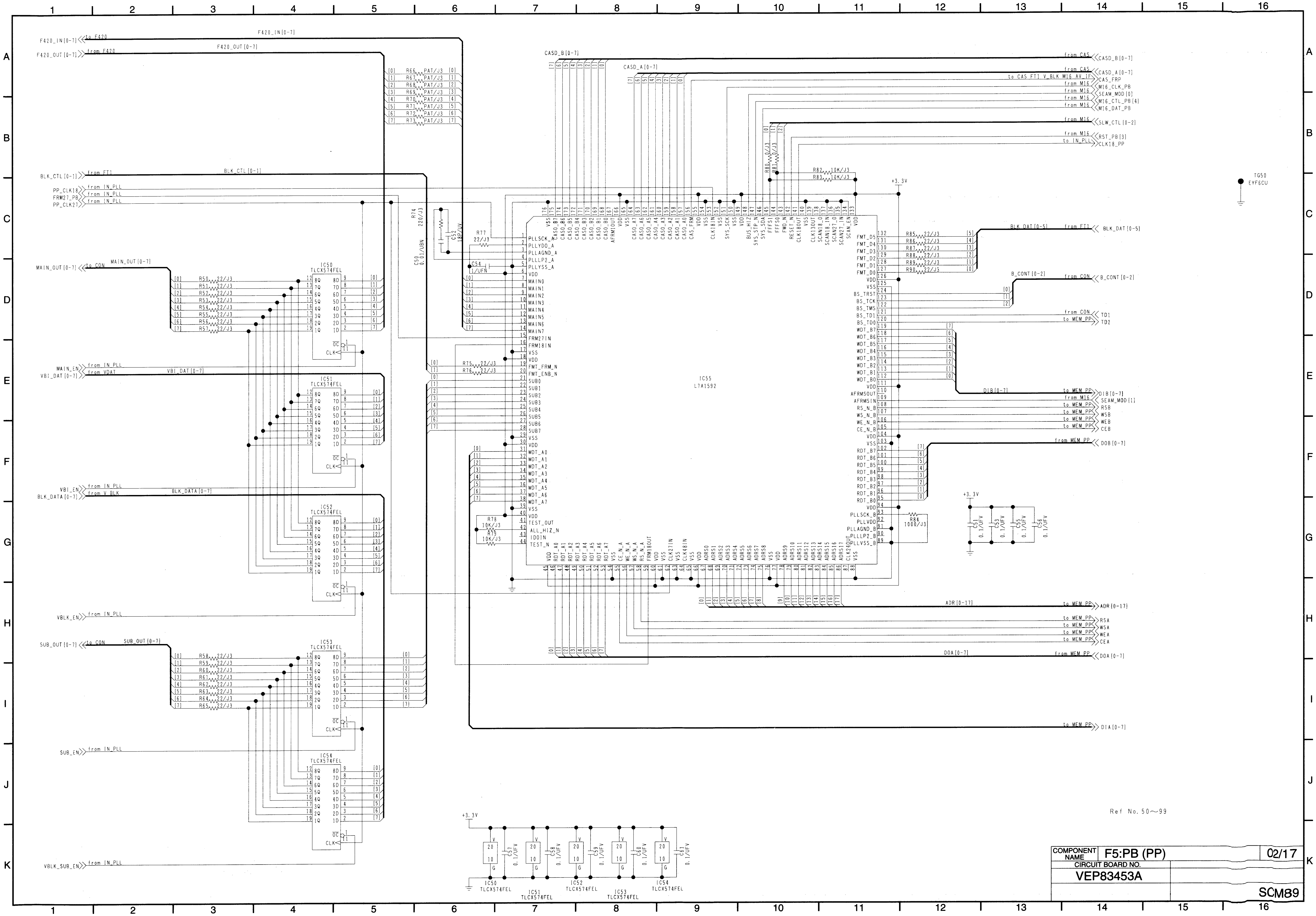
PAT=PATTERN ONLY
Ref No. 831~860 Series.

COMPONENT NAME	F4:SDI MAIN(EE THROUGH)	22/22
CIRCUIT BOARD NO.		
VEP83452A		
		CM87


FL3
VLF0576-T
MOTH+12V
R1
1000/J5
IC2
NJM78L09UAT2
+A9V
C1
C9
C15
FL4
VLF0576-T
MOTH-12V
IC3
NJM79L09UAT2
-A9V
C2
C10
C16
FL5
VLF0576-T
MOTH+7R5V
IC4
NJM78L05UAT2
+A5V
C3
C11
C17
+7.5V
FL6
VLF0576-T
MOTH-7R5V
C4
C5
-7.5V
AV_ADRS[0-10]
AV_DATA[0-7]
P1
VJP3510
P2
VJP3510
SUB_OUT[0-7]
MAIN_OUT[0-7]
DIF_BUS_P[0-7]
DV_DIF_DATA[0-7]
DV_DIF_ADRS[0-10]
PLD_TD6
from F420
+D5V
P8
VJP1248T
R6
1000/J3
IC5
T74VHCT244F1
ISPEN
MODE
SCLK
to FT2
PLD_TD1
to ALL
PLD_CTL[0-2]
C20
R11
1000/J3
C21
R7
R8
R9
R10
1000/J3
TP1
TP2
TP3
TP4
TP5
TMS
TCK
TRST
to PP
TDI
B_CONT[0-2]
TD10
from V_BLK
FL1
VLF0931-T
MOTH+5V
+D5V
C6
C12
IC1
LT1086CM
R2
R3
C7
C13
+D2V
FL2
VLF0931-T
MOTH-5V
C8
C14
-D5V
FL7
VLF0931-T
MOTH+3R3V
+3VIF
+3.3V
C18
C19
R4
R5
Ref No. 1~49

COMPONENT NAME	F5:PB (CON)	01/17
CIRCUIT BOARD NO.		
VEP83453A		

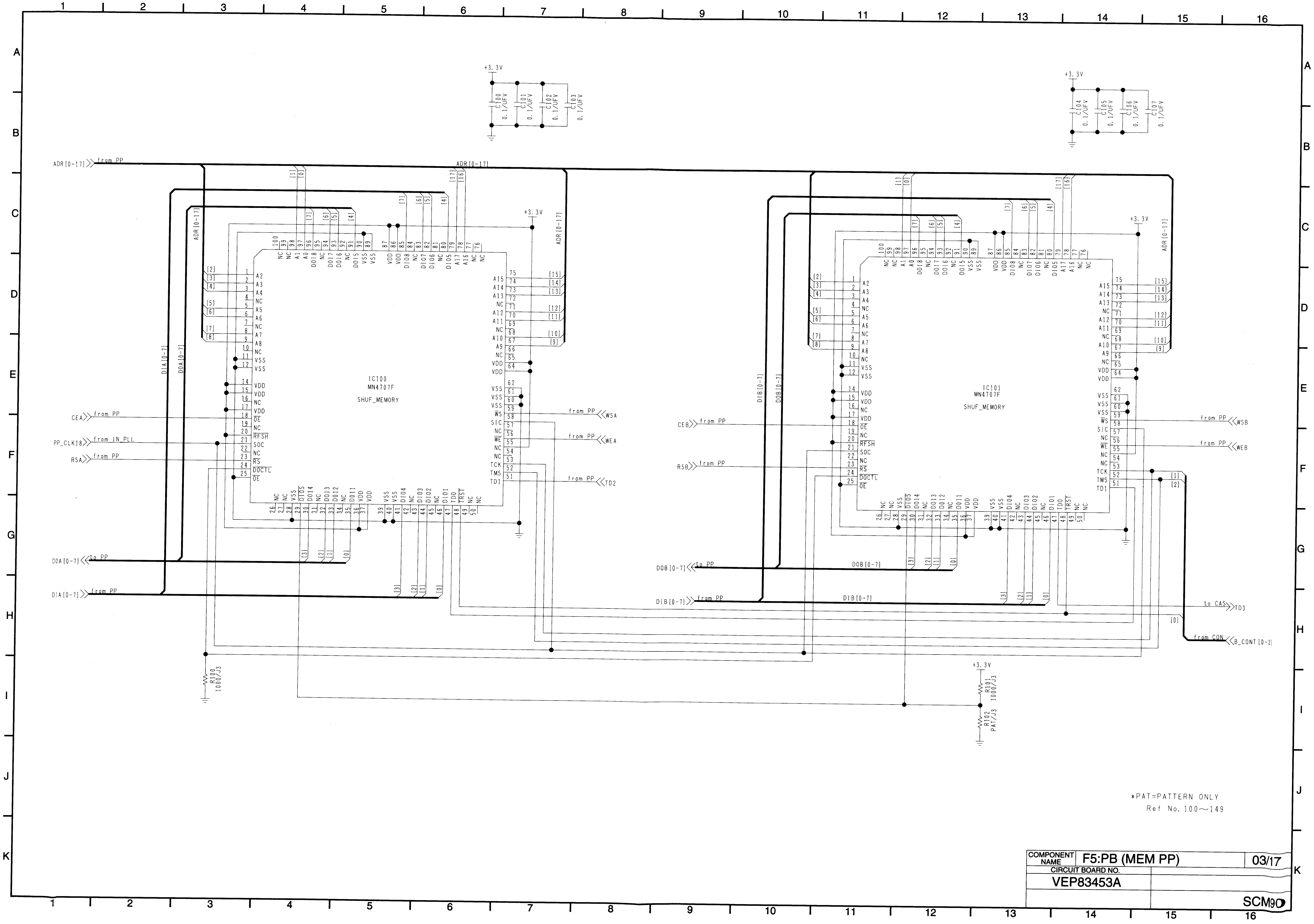
SCM88


F420_IN[0-7] to F420
F420_OUT[0-7] from F420
BLK_CTL[0-1] from FTI
PP_CLK18 from IN_PLL
FRM27_PB from IN_PLL
PP_CLK27 from IN_PLL
MAIN_OUT[0-7] to CON
MAIN_EN from IN_PLL
VBI_DAT[0-7] from VDAT
VBI_EN from IN_PLL
BLK_DATA[0-7] from V_BLK
VBLK_EN from IN_PLL
SUB_OUT[0-7] to CON
SUB_EN from IN_PLL
VBLK_SUB_EN from IN_PLL
IC50 TLCX574FEL
IC51 TLCX574FEL
IC52 TLCX574FEL
IC53 TLCX574FEL
IC54 TLCX574FEL
IC55 L7A1592
CASD_B[0-7] from CAS
CASD_A[0-7] from CAS
CAS_FRP to CAS_FTI_V_BLK_M16_AV_IF
M16_CLK_PB from M16
SEAM_MOD[0] from M16
M16_CTL_PB[4] from M16
M16_DAT_PB from M16
SLW_CTL[0-2] from M16
RST_PB[3] from M16
CLK18_PP to IN_PLL
TG50 EYF6CU
BLK_DAT[0-5] from FTI
B_CONT[0-2] from CON
TD1 from CON
TD2 to MEM_PP
DIB[0-7] to MEM_PP
SEAM_MOD[1] from M16
RSB to MEM_PP
WSB to MEM_PP
WEB to MEM_PP
CEB to MEM_PP
DOB[0-7] from MEM_PP
ADR[0-17] to MEM_PP
RSA to MEM_PP
WSA to MEM_PP
WEA to MEM_PP
CEA to MEM_PP
DOA[0-7] from MEM_PP
DIA[0-7] to MEM_PP
+3.3V
R74 220/J3
C52 18P/UV
C50 0.01/UBN
C54 1/UFN
R77 22/J3
R75 22/J3
R76 22/J3
R78 10K/J3
R79 10K/J3
R80 0/J3
R81 0/J3
R82 10K/J3
R83 10K/J3
R84 1000/J3
R85–R90 22/J3
R50–R57 22/J3
R58–R65 22/J3
R66–R73 PAT/J3
C51 0.1/UFV
C53 0.1/UFV
C55 0.1/UFV
C56 0.1/UFV
C57 0.1/UFV
C58 0.1/UFV
C59 0.1/UFV
C60 0.1/UFV
C61 0.1/UFV

KR3W30(2/17)

Ref No. 50～99

COMPONENT NAME	F5:PB (PP)	02/17
CIRCUIT BOARD NO.		
VEP83453A		
		SCM89

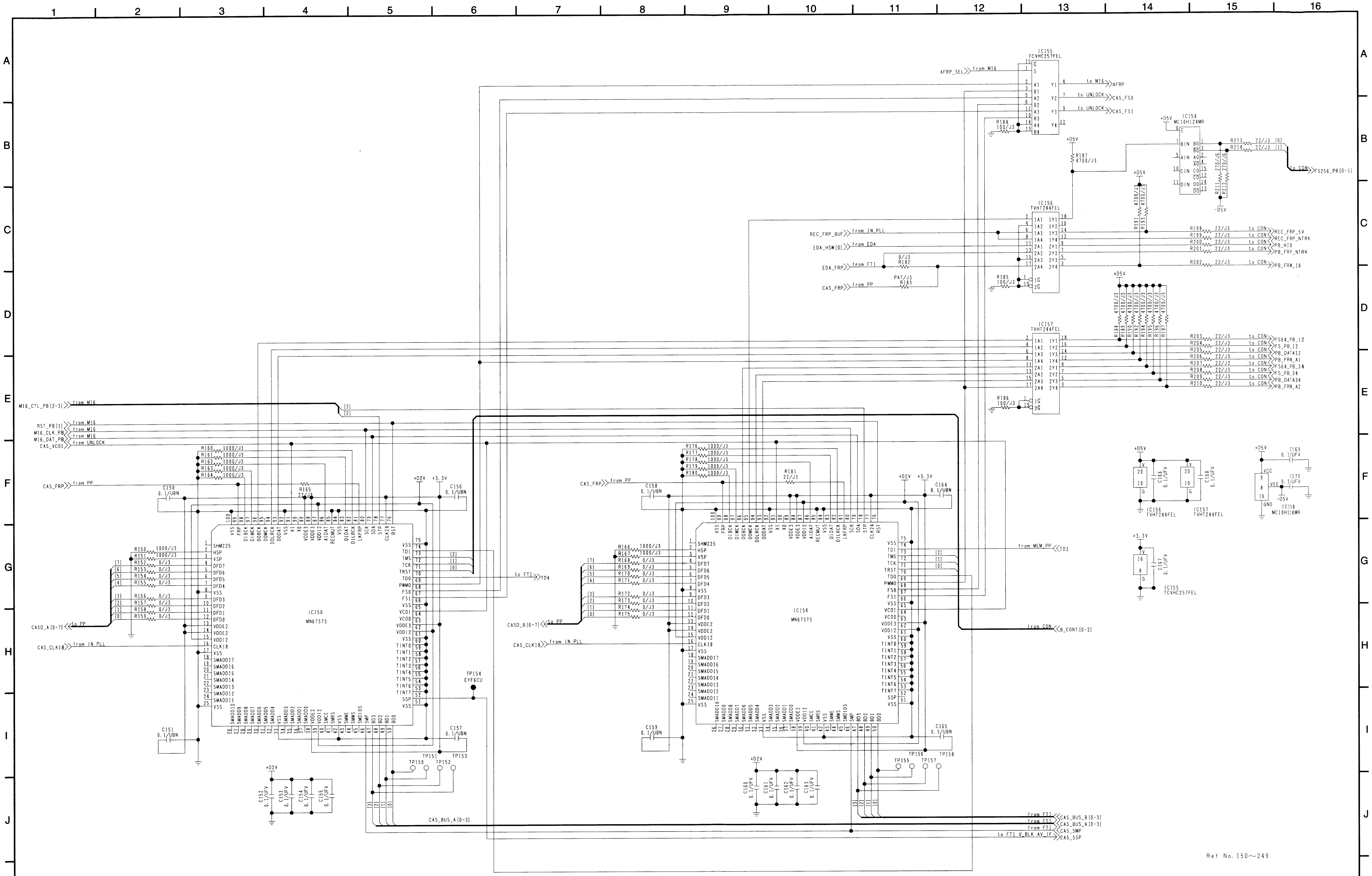

+3.3V
C100 0.1/UFV
C101 0.1/UFV
C102 0.1/UFV
C103 0.1/UFV
C104 0.1/UFV
C105 0.1/UFV
C106 0.1/UFV
C107 0.1/UFV
ADR[0-17] from PP
IC100
MN4707F
SHUF_MEMORY
IC101
MN4707F
SHUF_MEMORY
CEA from PP
PP_CLK18 from IN_PLL
RSA from PP
CEB from PP
RSB from PP
from PP WSA
from PP WEA
from PP TD2
from PP WSB
from PP WEB
DOA[0-7] to PP
DIA[0-7] from PP
DOB[0-7] to PP
DIB[0-7] from PP
to CAS TD3
from CON B_CONT[0-2]
R100 1000/J3
R101 1000/J3
R102 PAT/J3

*PAT=PATTERN ONLY
Ref No. 100~149

COMPONENT NAME F5:PB (MEM PP) 03/17
CIRCUIT BOARD NO.
VEP83453A

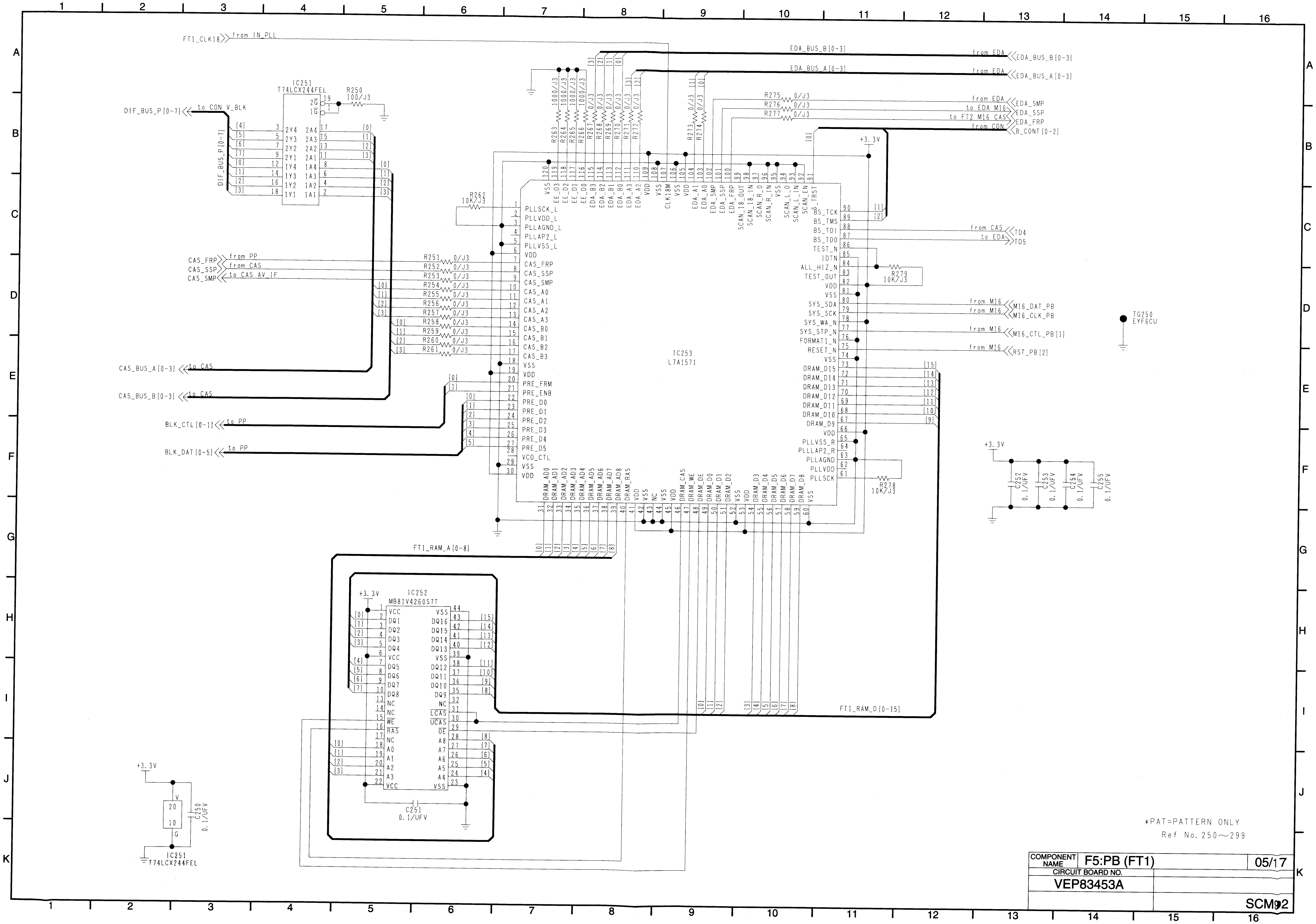
SCM90

KR3W30(3/17)


IC155
TCVHC257FEL
AFRP_SEL from M16
to M16 AFRP
to UNLOCK CAS_FS0
to UNLOCK CAS_FS1
R184 100/J3
IC158
MC10H124MR
+D5V
R187 4700/J3
R213 22/J3 [0]
R214 22/J3 [1]
R211 270/J6
R212 270/J6
-D5V
to CON FS256_PB[0-1]
IC156
TVHT244FEL
REC_FRP_BUF from IN_PLL
EDA_HSW[0] from EDA
EDA_FRP from FT1
R182 0/J3
CAS_FRP from PP
R183 PAT/J3
R185 100/J3
R191 4700/J3
R193 4700/J3
R198 22/J3 to CON REC_FRP_5V
R199 22/J3 to CON REC_FRP_NTRK
R200 22/J3 to CON PB_HID
R201 22/J3 to CON PB_FRP_NTRK
R202 22/J3 to CON PB_FRM_18
IC157
TVHT244FEL
R188 R189 R190 R192 R194 R195 R196 R197 4700/J3
R203 22/J3 to CON FS64_PB_12
R204 22/J3 to CON FS_PB_12
R205 22/J3 to CON PB_DATA12
R206 22/J3 to CON PB_FRM_A1
R207 22/J3 to CON FS64_PB_34
R208 22/J3 to CON FS_PB_34
R209 22/J3 to CON PB_DATA34
R210 22/J3 to CON PB_FRM_A2
R186 100/J3
M16_CTL_PB[2-3] from M16
RST_PB[1] from M16
M16_CLK_PB from M16
M16_DAT_PB from M16
CAS_VCOI from UNLOCK
R160 R161 R162 R163 R164 1000/J3
CAS_FRP from PP
C150 0.1/UBN
R165 22/J3
+D2V
+3.3V
C156 0.1/UBN
R150 R151 1000/J3
R152 R153 R154 R155 0/J3
R156 R157 R158 R159 0/J3
CASD_A[0-7] to PP
CAS_CLK18 from IN_PLL
IC150
MN67373
to FT1 TD4
TP154
EYF6CU
C151 0.1/UBN
C157 0.1/UBN
TP150 TP151 TP152 TP153
C152 C153 C154 C155 0.1/UFV
CAS_BUS_A[0-3]
R176 R177 R178 R179 R180 1000/J3
R181 22/J3
C158 0.1/UBN
C164 0.1/UBN
R166 R167 1000/J3
R168 R169 R170 R171 0/J3
R172 R173 R174 R175 0/J3
CASD_B[0-7] to PP
CAS_CLK18 from IN_PLL
IC154
MN67373
from MEM_PP TD3
from CON B_CONT[0-2]
C159 0.1/UBN
C165 0.1/UBN
C160 C161 C162 C163 0.1/UFV
TP155 TP156 TP157 TP158
from FT1 CAS_BUS_B[0-3]
from FT1 CAS_BUS_A[0-3]
from FT1 CAS_SMP
to FT1 V_BLK_AV_IF CAS_SSP
+D5V
C166 0.1/UFV
C168 0.1/UFV
IC156 TVHT244FEL
IC157 TVHT244FEL
C169 0.1/UFV
C170 0.1/UFV
IC158 MC10H124MR
+3.3V
C167 0.1/UFV
IC155 TCVHC257FEL

Ref No. 150～249

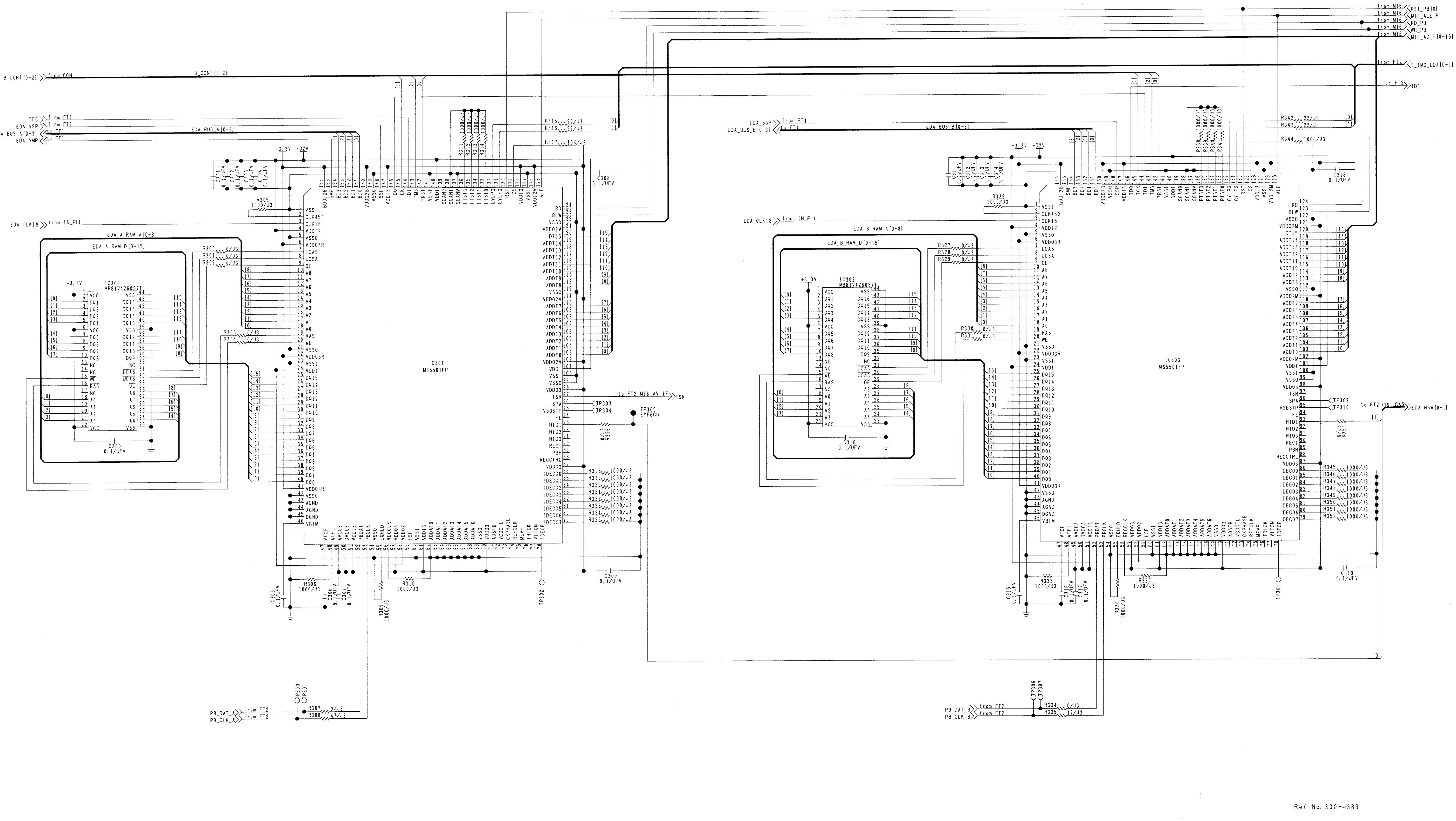
COMPONENT NAME	F5:PB (CAS)	04/17
CIRCUIT BOARD NO.		
VEP83453A		
		SCM91


FT1_CLK18
from IN_PLL
EDA_BUS_B[0-3]
EDA_BUS_A[0-3]
from EDA
EDA_SMP
to EDA M16
EDA_SSP
to FT2 M16 CAS
EDA_FRP
from CON
B_CONT[0-2]
IC251
T74LCX244FEL
R250
100/J3
DIF_BUS_P[0-7]
to CON V_BLK
R262
10K/J3
R263 R264 R265 R266
1000/J3
R267 R268 R269 R270 R271 R272 R273 R274
0/J3
R275 R276 R277
0/J3
+3.3V
CAS_FRP
from PP
CAS_SSP
from CAS
CAS_SMP
to CAS AV_IF
R251 R252 R253 R254 R255 R256 R257 R258 R259 R260 R261
0/J3
PLLSCK_L
PLLVDD_L
PLLAGND_L
PLLAP2_L
PLLVSS_L
VDD
CAS_FRP
CAS_SSP
CAS_SMP
CAS_A0
CAS_A1
CAS_A2
CAS_A3
CAS_B0
CAS_B1
CAS_B2
CAS_B3
VSS
PRE_FRM
PRE_ENB
PRE_D0
PRE_D1
PRE_D2
PRE_D3
PRE_D4
PRE_D5
VCO_CTL
IC253
L7A1571
BS_TCK
BS_TMS
BS_TDI
BS_TDO
TEST_N
IDTN
ALL_HIZ_N
TEST_OUT
SYS_SDA
SYS_SCK
SYS_WA_N
SYS_STP_N
FORMAT1_N
RESET_N
DRAM_D15
DRAM_D14
DRAM_D13
DRAM_D12
DRAM_D11
DRAM_D10
DRAM_D9
PLLVSS_R
PLLLAP2_R
PLLAGND
PLLVDD
PLLSCK
R279
10K/J3
R278
10K/J3
from CAS
TD4
to EDA
TD5
from M16
M16_DAT_PB
M16_CLK_PB
M16_CTL_PB[1]
RST_PB[2]
TG250
EYF6CU
C252 C253 C254 C255
0.1/UFV
EE_D3 EE_D2 EE_D1 EE_D0
EDA_B3 EDA_B2 EDA_B1 EDA_B0
EDA_A3 EDA_A2
CLK18M
EDA_A1 EDA_A0
EDA_SMP EDA_SSP EDA_FRP
SCAN_18_OUT SCAN_18_IN
SCAN_R_O SCAN_R_IN
SCAN_L_O SCAN_L_IN
SCAN_EN
SCAN_TRST
DRAM_AD0 DRAM_AD1 DRAM_AD2 DRAM_AD3 DRAM_AD4 DRAM_AD5 DRAM_AD6 DRAM_AD7 DRAM_AD8
DRAM_RAS
NC
DRAM_CAS DRAM_WE DRAM_OE
DRAM_D0 DRAM_D1 DRAM_D2 DRAM_D3 DRAM_D4 DRAM_D5 DRAM_D6 DRAM_D7 DRAM_D8
CAS_BUS_A[0-3]
to CAS
CAS_BUS_B[0-3]
BLK_CTL[0-1]
to PP
BLK_DAT[0-5]
FT1_RAM_A[0-8]
FT1_RAM_D[0-15]
IC252
MB81V4260S7T
VCC DQ1 DQ2 DQ3 DQ4 DQ5 DQ6 DQ7 DQ8
NC WE RAS A0 A1 A2 A3
VSS DQ16 DQ15 DQ14 DQ13 DQ12 DQ11 DQ10 DQ9
LCAS UCAS OE A8 A7 A6 A5 A4
C251
0.1/UFV
C250
0.1/UFV
IC251
T74LCX244FEL

*PAT=PATTERN ONLY
Ref No. 250∼299

COMPONENT NAME	F5:PB (FT1)	05/17
CIRCUIT BOARD NO.		
VEP83453A		
		SCM92

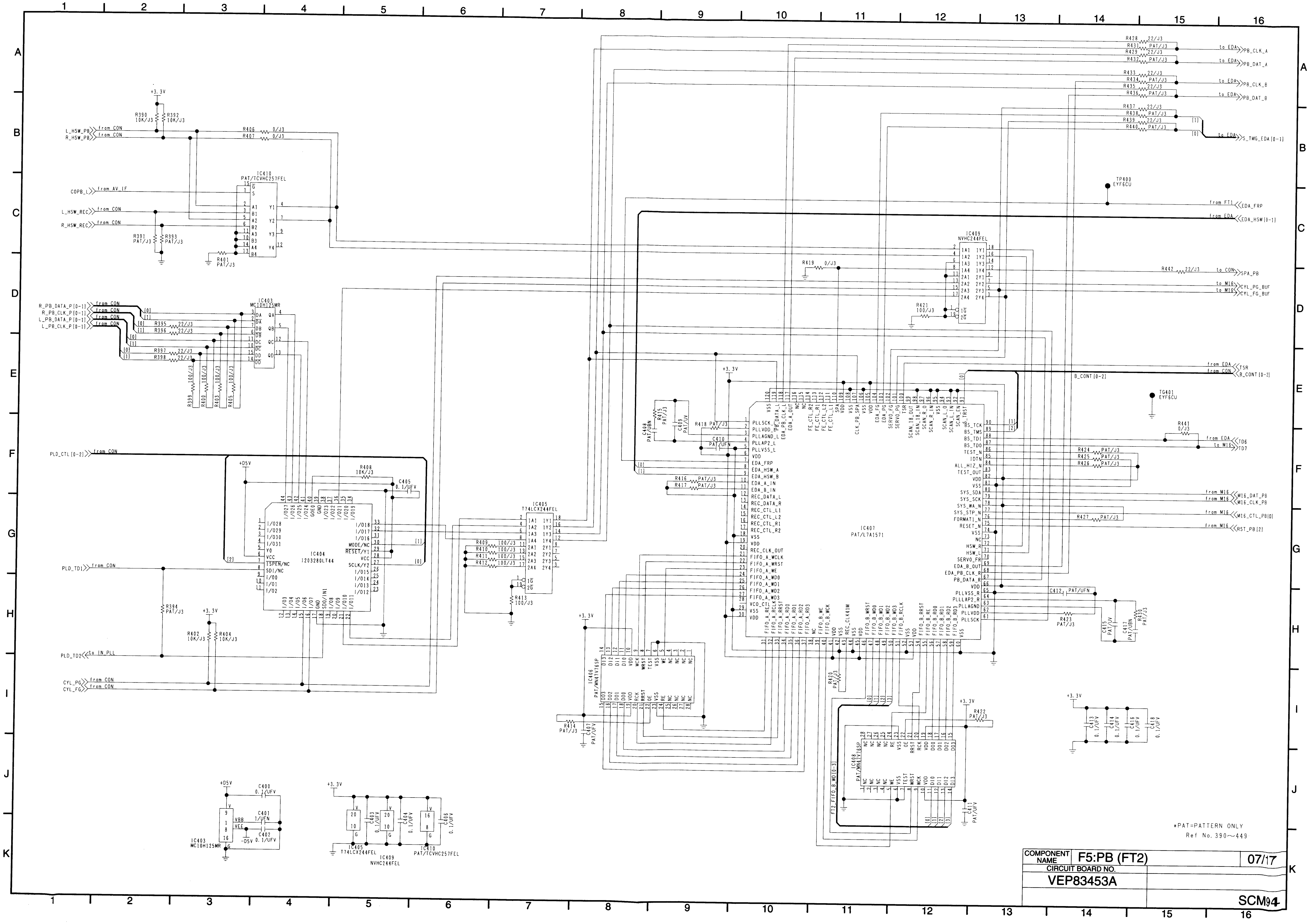
KR3W30(5/17)


IC300
MB81V4260S7
IC301
M65501FP
IC302
MB81V4260S7
IC303
M65501FP
B_CONT[0-2]
from CON
TD5
EDA_SSP
EDA_BUS_A[0-3]
EDA_SMP
from FT1
to FT1
EDA_BUS_B[0-3]
EDA_CLK18
from IN_PLL
EDA_A_RAM_A[0-8]
EDA_A_RAM_D[0-15]
EDA_B_RAM_A[0-8]
EDA_B_RAM_D[0-15]
RST_PB[0]
M16_ALE_P
RD_PB
WR_PB
M16_AD_P[0-15]
from M16
S_TMG_EDA[0-1]
from FT2
TD6
to FT2
to FT2 M16_AV_IF
TSR
TP303
TP304
TP305
EYF6CU
TP309
TP310
to FT2 M16_CAS
EDA_HSW[0-1]
TP302
TP308
TP300
TP301
TP306
TP307
PB_DAT_A
PB_CLK_A
PB_DAT_B
PB_CLK_B
+3.3V
+D2V
C300 0.1/UFV
C308 0.1/UFV
C309 0.1/UFV
C310 0.1/UFV
C318 0.1/UFV
C319 0.1/UFV
R305 1000/J3
R306 1000/J3
R307 0/J3
R308 47/J3
R309 1000/J3
R310 1000/J3
R317 10K/J3
R332 1000/J3
R333 1000/J3
R334 0/J3
R335 47/J3
R336 1000/J3
R337 1000/J3
R344 1000/J3

Ref No. 300〜389

COMPONENT NAME	F5:PB (EDA)	06/17
CIRCUIT BOARD NO.		
VEP83453A		
		SCM93

KR3W30(6/17)

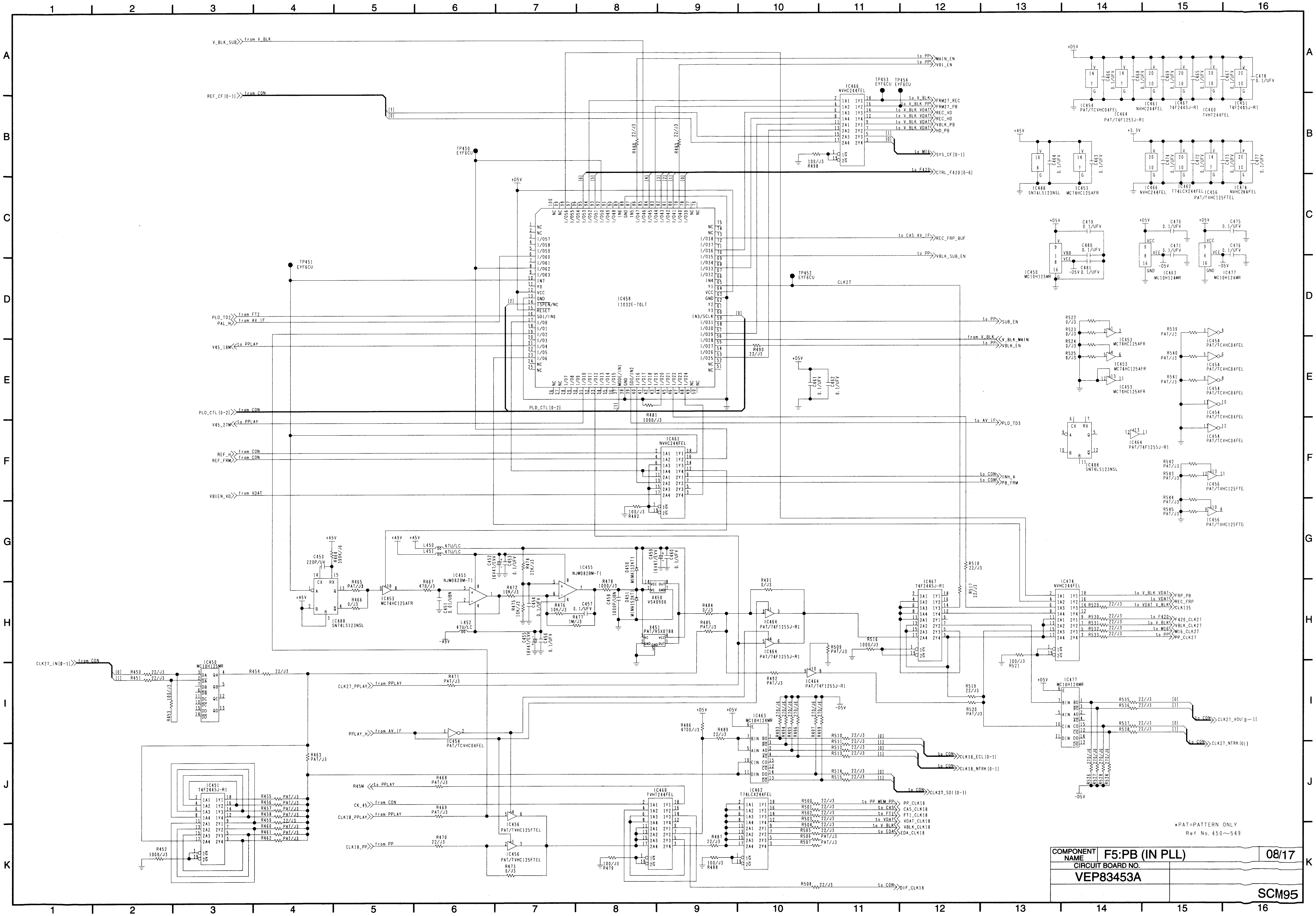

IC410 PAT/TCVHC257FEL
IC403 MC10H125MR
IC404 I203280LT44
IC405 T74LCX244FEL
IC409 NVHC244FEL
IC407 PAT/L7A1571
IC406 PAT/MN4V765P
IC408 PAT/MN4V765P
L_HSW_PB from CON
R_HSW_PB from CON
COPB_L from AV_IF
L_HSW_REC from CON
R_HSW_REC from CON
R_PB_DATA_P[0-1] from CON
R_PB_CLK_P[0-1] from CON
L_PB_DATA_P[0-1] from CON
L_PB_CLK_P[0-1] from CON
PLD_CTL[0-2] from CON
PLD_TDI from CON
PLD_TDO to IN_PLL
CYL_PG from CON
CYL_FG from CON
to EDA PB_CLK_A
to EDA PB_DAT_A
to EDA PB_CLK_B
to EDA PB_DAT_B
to EDA S_TMG_EDA[0-1]
TP400 EYF6CU
from FT1 EDA_FRP
from EDA EDA_HSW[0-1]
to CON SPA_PB
to M16 CYL_PG_BUF
to M16 CYL_FG_BUF
from EDA TSR
from CON B_CONT[0-2]
TG401 EYF6CU
from EDA TDO
to M16 TDI
from M16 M16_DAT_PB
from M16 M16_CLK_PB
from M16 M16_CTL_PB[0]
from M16 RST_PB[2]
+3.3V
+D5V
-D5V

*PAT=PATTERN ONLY
Ref No. 390~449

COMPONENT NAME	F5:PB (FT2)	07/17
CIRCUIT BOARD NO.		
VEP83453A		

SCM94

KR3W30(7/17)


IC458
I1032E-70LT
IC466
NVHC244FEL
IC461
NVHC244FEL
IC474
NVHC244FEL
IC467
74F244SJ-R1
IC451
74F244SJ-R1
IC460
TVHT244FEL
IC462
T74LCX244FEL
IC463
MC10H124MR
IC477
MC10H124MR
IC450
MC10H125MR
IC455
NJM082BM-T1
IC453
MC74HC125AFR
IC488
SN74LS123NSL
IC464
PAT/74F1255J-R1
IC454
PAT/TCVHC04FEL
IC456
PAT/TVHC125FTEL
X450
VSX0906
X451
PAT/VSX0788
TP450
TP451
TP452
TP453
TP454
EYF6CU
+D5V
+A5V
-A5V
-D5V
+3.3V
V_BLK_SUB
REF_CF[0-1]
PLD_TD2
PAL_H
V45_18M
PLD_CTL[0-2]
V45_27M
REF_H
REF_FRM
VBIEN_VD
CLK27_IN[0-1]
CLK27_PPLAY
PPLAY_H
V45M
CK_45
CLK18_PPLAY
CLK18_PP
MAIN_EN
VBI_EN
FRM27_REC
FRM27_PB
REC_VD
REC_HD
VBLK_PB
HD_PB
SYS_CF[0-1]
CTRL_F420[0-6]
REC_FRP_BUF
VBLK_SUB_EN
CLK27
SUB_EN
V_BLK_MAIN
VBLK_EN
PLD_TD3
INH_A
PB_FRM
FRP_PB
REC_FRP
CLK135
F420_CLK27
VBLK_CLK27
M16_CLK27
PP_CLK27
CLK27_VOUT[0-1]
CLK27_NTRK[0-1]
CLK18_ECL[0-1]
CLK18_NTRK[0-1]
CLK27_SDI[0-1]
PP_CLK18
CAS_CLK18
FTI_CLK18
VDAT_CLK18
VBLK_CLK18
EDA_CLK18
DIF_CLK18

*PAT=PATTERN ONLY
Ref No. 450~549

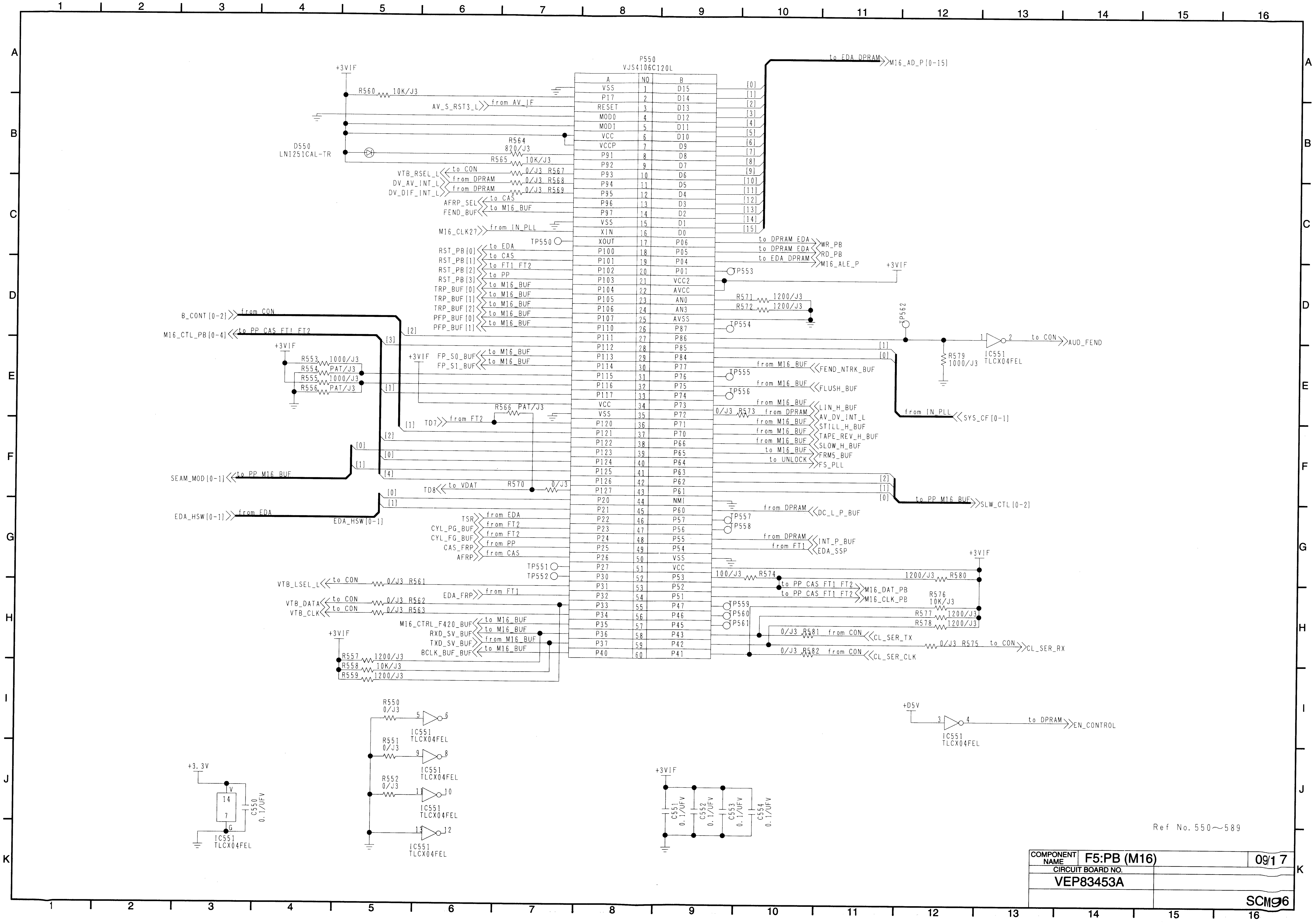
COMPONENT NAME F5:PB (IN PLL)

08/17

CIRCUIT BOARD NO.

VEP83453A

SCM95

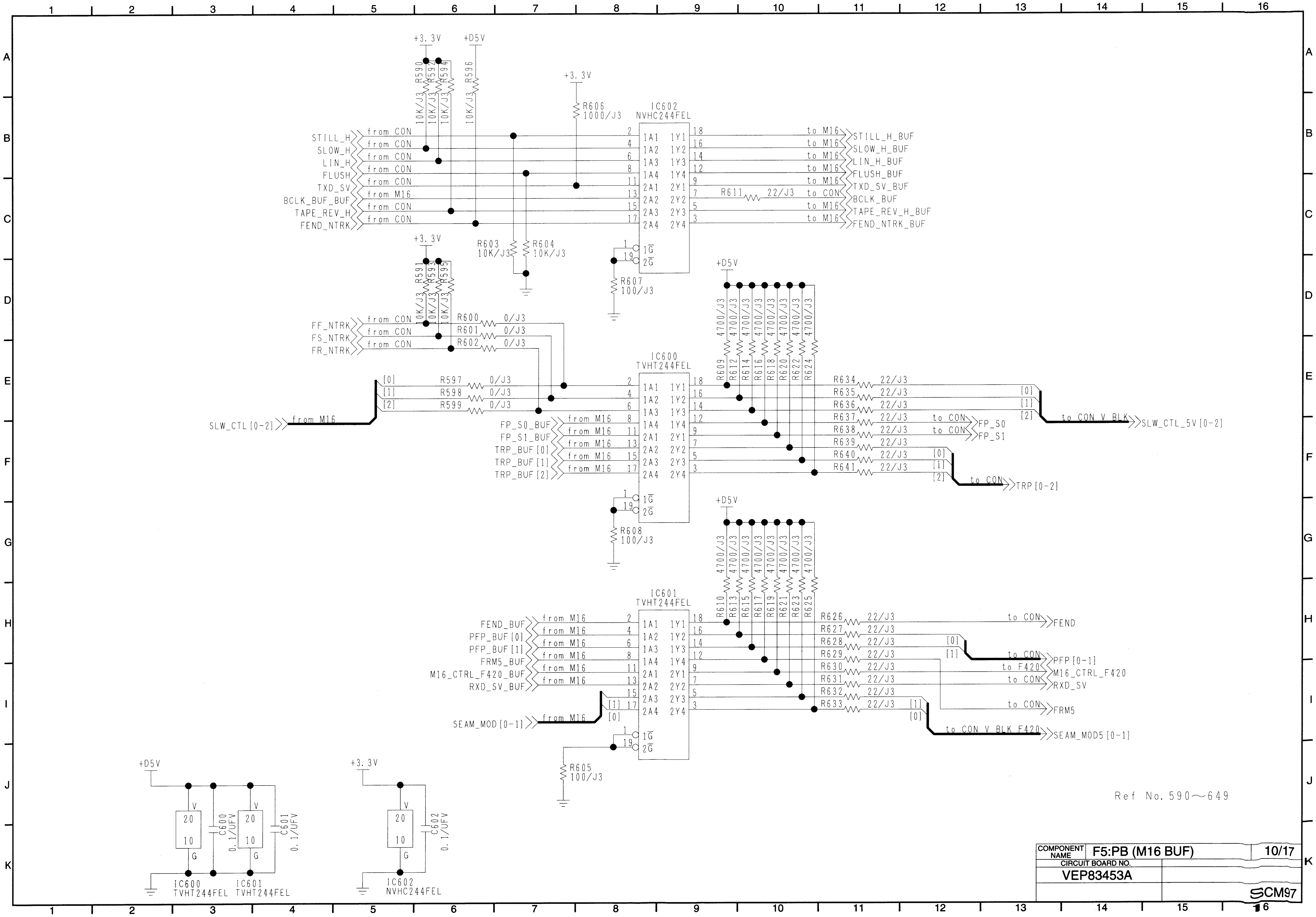

P550
VJS4106C120L
A NO B
VSS 1 D15
P17 2 D14
RESET 3 D13
MOD0 4 D12
MOD1 5 D11
VCC 6 D10
VCCP 7 D9
P91 8 D8
P92 9 D7
P93 10 D6
P94 11 D5
P95 12 D4
P96 13 D3
P97 14 D2
VSS 15 D1
XIN 16 D0
XOUT 17 P06
P100 18 P05
P101 19 P04
P102 20 P01
P103 21 VCC2
P104 22 AVCC
P105 23 AN0
P106 24 AN3
P107 25 AVSS
P110 26 P87
P111 27 P86
P112 28 P85
P113 29 P84
P114 30 P77
P115 31 P76
P116 32 P75
P117 33 P74
VCC 34 P73
VSS 35 P72
P120 36 P71
P121 37 P70
P122 38 P66
P123 39 P65
P124 40 P64
P125 41 P63
P126 42 P62
P127 43 P61
P20 44 NMI
P21 45 P60
P22 46 P57
P23 47 P56
P24 48 P55
P25 49 P54
P26 50 VSS
P27 51 VCC
P30 52 P53
P31 53 P52
P32 54 P51
P33 55 P47
P34 56 P46
P35 57 P45
P36 58 P43
P37 59 P42
P40 60 P41
+3VIF
R560 10K/J3
AV_S_RST3_L from AV_IF
D550 LN1251CAL-TR
R564 820/J3
R565 10K/J3
VTB_RSEL_L to CON 0/J3 R567
DV_AV_INT_L from DPRAM 0/J3 R568
DV_DIF_INT_L from DPRAM 0/J3 R569
AFRP_SEL to CAS
FEND_BUF to M16_BUF
M16_CLK27 from IN_PLL
TP550
RST_PB[0] to EDA
RST_PB[1] to CAS
RST_PB[2] to FT1 FT2
RST_PB[3] to PP
TRP_BUF[0] to M16_BUF
TRP_BUF[1] to M16_BUF
TRP_BUF[2] to M16_BUF
PFP_BUF[0] to M16_BUF
PFP_BUF[1] to M16_BUF
B_CONT[0-2] from CON
M16_CTL_PB[0-4] to PP CAS FT1 FT2
R553 1000/J3
R554 PAT/J3
R555 1000/J3
R556 PAT/J3
FP_S0_BUF to M16_BUF
FP_S1_BUF to M16_BUF
R566 PAT/J3
TD7 from FT2
SEAM_MOD[0-1] to PP M16_BUF
TD8 to VDAT
R570 0/J3
EDA_HSW[0-1] from EDA
EDA_HSW[0-1]
TSR from EDA
CYL_PG_BUF from FT2
CYL_FG_BUF from FT2
CAS_FRP from PP
AFRP from CAS
TP551
TP552
VTB_LSEL_L to CON 0/J3 R561
EDA_FRP from FT1
VTB_DATA to CON 0/J3 R562
VTB_CLK to CON 0/J3 R563
M16_CTRL_F420_BUF to M16_BUF
RXD_SV_BUF to M16_BUF
TXD_SV_BUF from M16_BUF
BCLK_BUF_BUF to M16_BUF
R557 1200/J3
R558 10K/J3
R559 1200/J3
to EDA DPRAM M16_AD_P[0-15]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15]
to DPRAM EDA WR_PB
to DPRAM EDA RD_PB
to EDA DPRAM M16_ALE_P
TP553
R571 1200/J3
R572 1200/J3
TP554
TP562
IC551 TLCX04FEL
to CON AUD_FEND
R579 1000/J3
from M16_BUF FEND_NTRK_BUF
TP555
from M16_BUF FLUSH_BUF
TP556
from IN_PLL SYS_CF[0-1]
from M16_BUF LIN_H_BUF
0/J3 R573 from DPRAM AV_DV_INT_L
from M16_BUF STILL_H_BUF
from M16_BUF TAPE_REV_H_BUF
from M16_BUF SLOW_H_BUF
to M16_BUF FRM5_BUF
to UNLOCK FS_PLL
to PP M16_BUF SLW_CTL[0-2]
from DPRAM DC_L_P_BUF
TP557
TP558
from DPRAM INT_P_BUF
from FT1 EDA_SSP
100/J3 R574
1200/J3 R580
to PP CAS FT1 FT2 M16_DAT_PB
to PP CAS FT1 FT2 M16_CLK_PB
R576 10K/J3
TP559
TP560
TP561
R577 1200/J3
R578 1200/J3
0/J3 R581 from CON CL_SER_TX
0/J3 R575 to CON CL_SER_RX
0/J3 R582 from CON CL_SER_CLK
R550 0/J3
R551 0/J3
R552 0/J3
IC551 TLCX04FEL
+D5V
to DPRAM EN_CONTROL
+3.3V
V 14 7 G
C550 0.1/UFV
+3VIF
C551 0.1/UFV
C552 0.1/UFV
C553 0.1/UFV
C554 0.1/UFV
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

Ref No. 550～589

COMPONENT NAME	F5:PB (M16)	09/17
CIRCUIT BOARD NO.		
VEP83453A		

SCM96

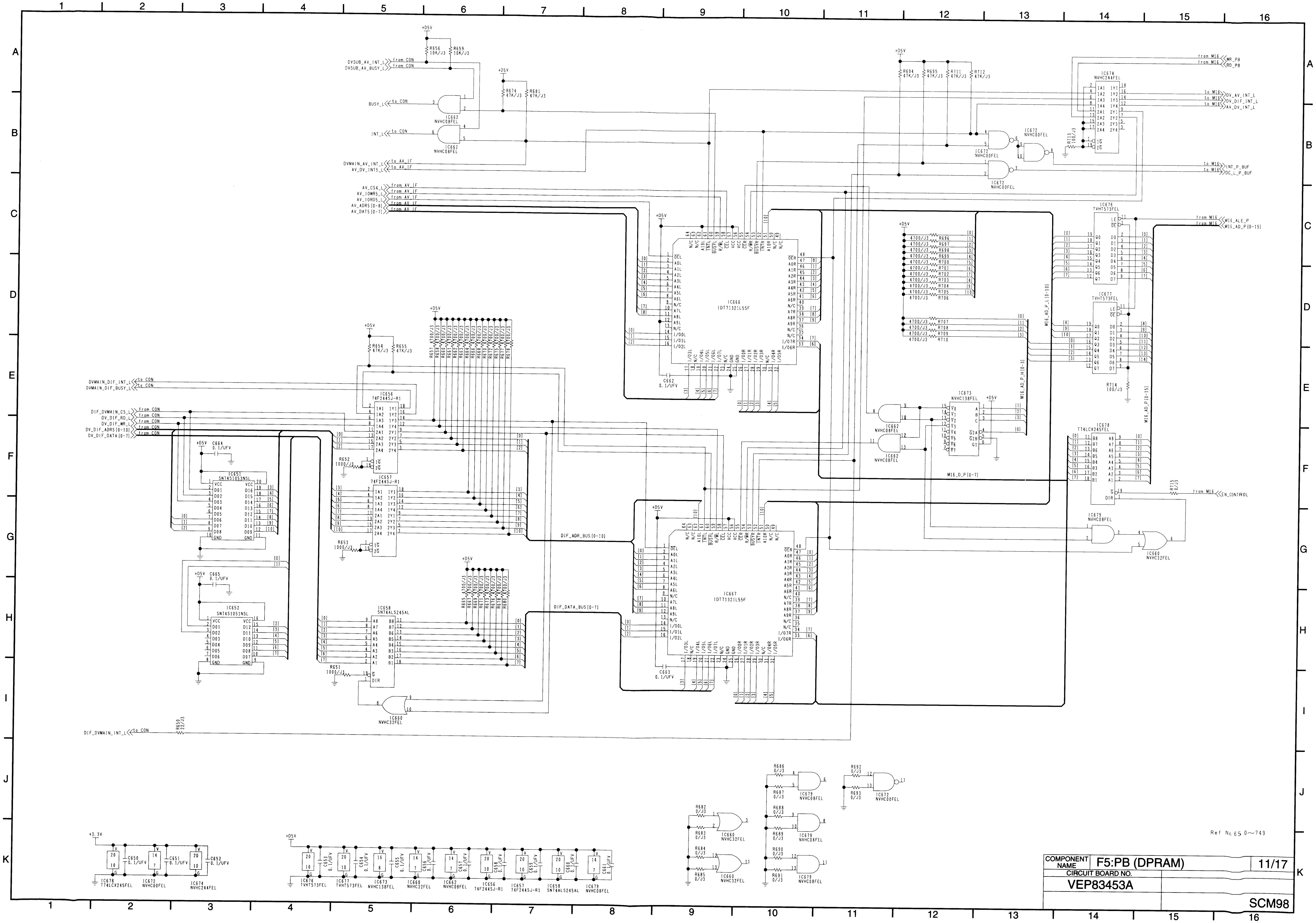
KR3W30(9/17)


+3.3V
+D5V
R590
R592
R594
R596
10K/J3
R606
1000/J3
IC602
NVHC244FEL
STILL_H
SLOW_H
LIN_H
FLUSH
TXD_SV
BCLK_BUF_BUF
TAPE_REV_H
FEND_NTRK
from CON
from M16
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
1G
2G
R611 22/J3
to M16
to CON
STILL_H_BUF
SLOW_H_BUF
LIN_H_BUF
FLUSH_BUF
TXD_SV_BUF
BCLK_BUF
TAPE_REV_H_BUF
FEND_NTRK_BUF
R603 10K/J3
R604 10K/J3
R607 100/J3
R591
R593
R595
FF_NTRK
FS_NTRK
FR_NTRK
R600 0/J3
R601 0/J3
R602 0/J3
IC600
TVHT244FEL
SLW_CTL[0-2]
from M16
[0] [1] [2]
R597 0/J3
R598 0/J3
R599 0/J3
FP_S0_BUF
FP_S1_BUF
TRP_BUF[0]
TRP_BUF[1]
TRP_BUF[2]
R608 100/J3
4700/J3
R609 R612 R614 R616 R618 R620 R622 R624
R634 R635 R636 R637 R638 R639 R640 R641
22/J3
to CON V BLK
SLW_CTL_5V[0-2]
to CON
FP_S0
FP_S1
TRP[0-2]
IC601
TVHT244FEL
FEND_BUF
PFP_BUF[0]
PFP_BUF[1]
FRM5_BUF
M16_CTRL_F420_BUF
RXD_SV_BUF
SEAM_MOD[0-1]
R610 R613 R615 R617 R619 R621 R623 R625
R626 R627 R628 R629 R630 R631 R632 R633
R605 100/J3
to CON
to F420
FEND
PFP[0-1]
M16_CTRL_F420
RXD_SV
FRM5
to CON V BLK F420
SEAM_MOD5[0-1]
C600 0.1/UFV
C601 0.1/UFV
C602 0.1/UFV
IC600 TVHT244FEL
IC601 TVHT244FEL
IC602 NVHC244FEL
V 20 10 G
Ref No. 590〜649

COMPONENT NAME	F5:PB (M16 BUF)	10/17
CIRCUIT BOARD NO.		
VEP83453A		

SCM97

KR3W30(10/17)


IC666
IDT7132IL55F
IC667
IDT7132IL55F
IC651
SN74S1053NSL
IC652
SN74S1053NSL
IC656
74F244SJ-R1
IC657
74F244SJ-R1
IC658
SN74ALS245AL
IC660
NVHC32FEL
IC662
NVHC08FEL
IC672
NVHC00FEL
IC673
NVHC138FEL
IC674
NVHC244FEL
IC676
TVHT573FEL
IC677
TVHT573FEL
IC678
T74LCX245FEL
IC679
NVHC08FEL
DVSUB_AV_INT_L
DVSUB_AV_BUSY_L
BUSY_L
INT_L
DVMAIN_AV_INT_L
AV_DV_INT5_L
AV_CS4_L
AV_IOWR5_L
AV_IORD5_L
AV_ADR5[0-8]
AV_DAT5[0-7]
DVMAIN_DIF_INT_L
DVMAIN_DIF_BUSY_L
DIF_DVMAIN_CS_L
DV_DIF_RD_L
DV_DIF_WR_L
DV_DIF_ADRS[0-10]
DV_DIF_DATA[0-7]
DIF_ADR_BUS[0-10]
DIF_DATA_BUS[0-7]
DIF_DVMAIN_INT_L
WR_P8
RD_P8
DV_AV_INT_L
DV_DIF_INT_L
AV_DV_INT_L
INT_P_BUF
DC_L_P_BUF
M16_ALE_P
M16_AD_P[0-15]
M16_AD_P_L[0-10]
M16_AD_P_H[0-3]
M16_D_P[0-7]
EN_CONTROL
+D5V
+3.3V

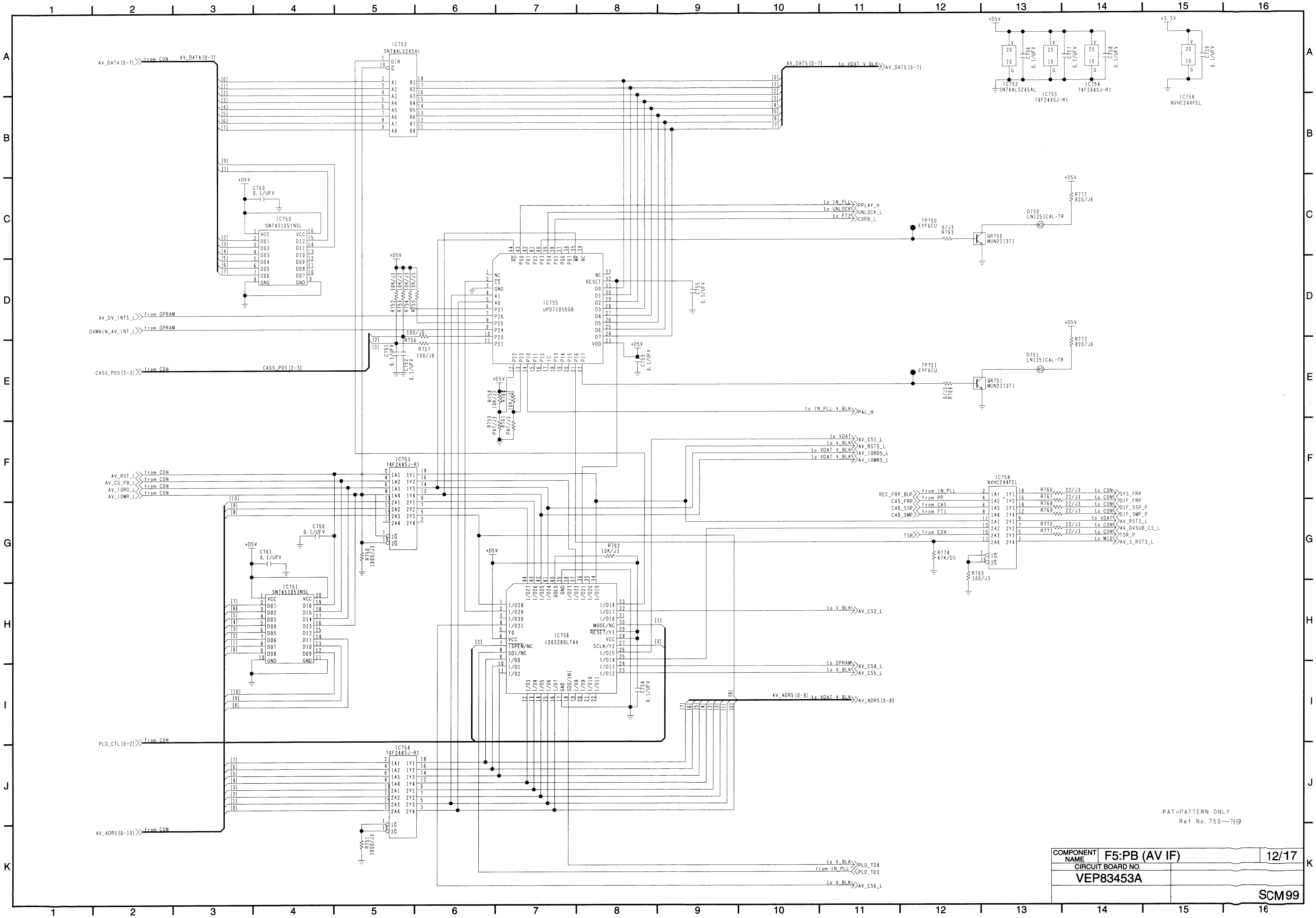
Ref No.650~749

COMPONENT NAME F5:PB (DPRAM) 11/17
CIRCUIT BOARD NO.
VEP83453A

SCM98

KR3W30(11/17)

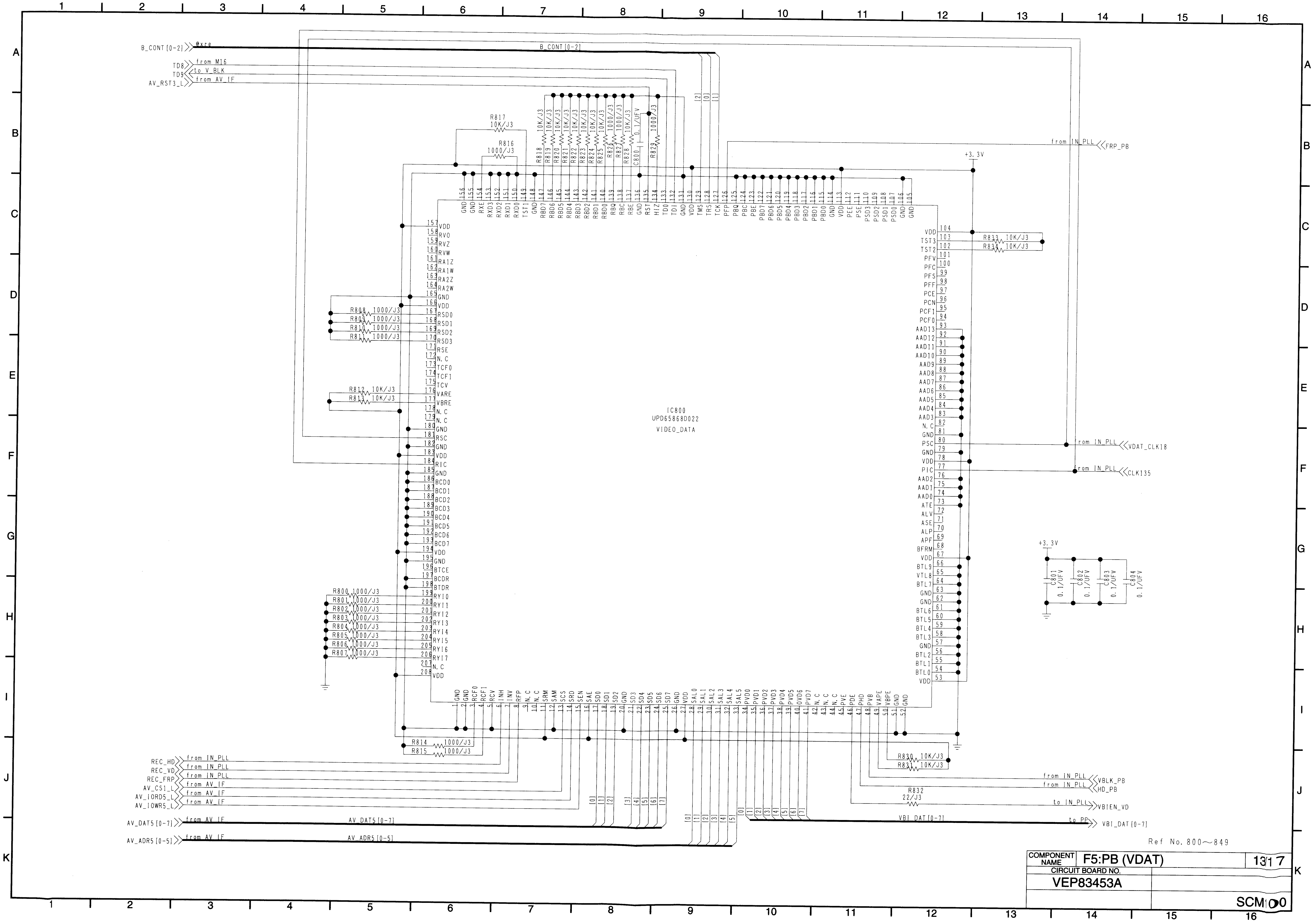
KR3W30(12/17)



IC752 SN74ALS245AL
IC750 SN74S1051NSL
IC751 SN74S1053NSL
IC753 74F244SJ-R1
IC754 74F244SJ-R1
IC755 UPD71055GB
IC756 I203280LT44
IC758 NVHC244FEL
AV_DATA[0-7] from CON
AV_DAT5[0-7] to VDAT V_BLK
to IN_PLL PPLAY_H
to UNLOCK UNLOCK_L
to FT2 COPB_L
TP750 EYF6CU
TP751 EYF6CU
QR750 MUN2213T1
QR751 MUN2213T1
D750 LN1251CAL-TR
D751 LN1251CAL-TR
R772 820/J6
R773 820/J6
AV_DV_INT5_L from DPRAM
DVMAIN_AV_INT_L from DPRAM
CAS5_POS[2-3] from CON
to IN_PLL V_BLK PAL_H
to VDAT AV_CS1_L
to V_BLK AV_RST5_L
to VDAT V_BLK AV_IORD5_L
to VDAT V_BLK AV_IOWR5_L
AV_RST_L from CON
AV_CS_PB_L from CON
AV_IORD_L from CON
AV_IOWR_L from CON
REC_FRP_BUF from IN_PLL
CAS_FRP from PP
CAS_SSP from CAS
CAS_SMP from FT1
TSR from EDA
to CON SYS_FRP
to CON DIF_FRP
to CON DIF_SSP_P
to CON DIF_SMP_P
to VDAT AV_RST3_L
to CON AV_DVSUB_CS_L
to CON TSR_P
to M18 AV_S_RST3_L
R762 10K/J3
R774 47K/D5
R765 100/J3
to V_BLK AV_CS2_L
to DPRAM AV_CS4_L
to V_BLK AV_CS5_L
AV_ADR5[0-8] to VDAT V_BLK AV_ADR5[0-8]
PLD_CTL[0-2] from CON
AV_ADRS[0-10] from CON
to V_BLK PLD_TD4
from IN_PLL PLD_TD3
to V_BLK AV_CS6_L
R750 1000/J3
R751 1000/J3
+D5V
+3.3V

PAT=PATTERN ONLY
Ref No. 750～759

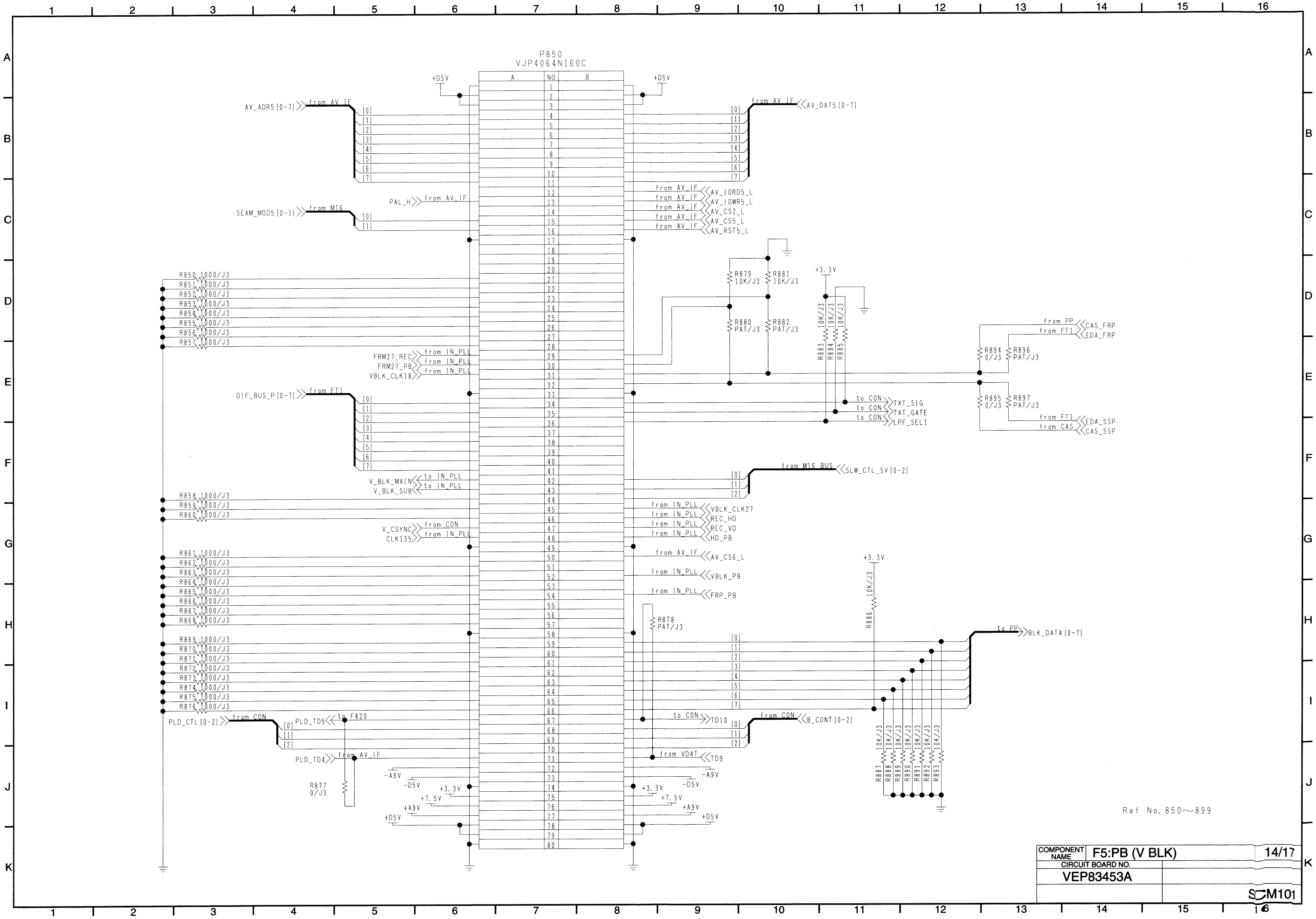
COMPONENT NAME	F5:PB (AV IF)	12/17
CIRCUIT BOARD NO.		
VEP83453A		
		SCM99


B_CONT[0-2]
exre
B_CONT[0-2]
TD8 from M16
TD9 to V_BLK
AV_RST3_L from AV_IF
R817 10K/J3
R816 1000/J3
R818 10K/J3
R819 10K/J3
R820 10K/J3
R821 10K/J3
R822 10K/J3
R823 10K/J3
R824 10K/J3
R825 10K/J3
R826 1000/J3
R827 1000/J3
R828 10K/J3
C800 0.1/UFV
R829 1000/J3
from IN_PLL FRP_PB
+3.3V
IC800
UPD65868D022
VIDEO_DATA
R808 1000/J3
R809 1000/J3
R810 1000/J3
R811 1000/J3
R812 10K/J3
R813 10K/J3
R800 1000/J3
R801 1000/J3
R802 1000/J3
R803 1000/J3
R804 1000/J3
R805 1000/J3
R806 1000/J3
R807 1000/J3
R814 1000/J3
R815 1000/J3
R833 10K/J3
R834 10K/J3
R830 10K/J3
R831 10K/J3
R832 22/J3
from IN_PLL VDAT_CLK18
from IN_PLL CLK135
C801 0.1/UFV
C802 0.1/UFV
C803 0.1/UFV
C804 0.1/UFV
REC_HD from IN_PLL
REC_VD from IN_PLL
REC_FRP from IN_PLL
AV_CS1_L from AV_IF
AV_IORD5_L from AV_IF
AV_IOWR5_L from AV_IF
AV_DAT5[0-7] from AV_IF
AV_DAT5[0-7]
AV_ADR5[0-5] from AV_IF
AV_ADR5[0-5]
from IN_PLL VBLK_PB
from IN_PLL HD_PB
to IN_PLL VBIEN_VD
VBI_DAT[0-7]
to PB VBI_DAT[0-7]
157 VDD
158 RVO
159 RVZ
160 RVW
161 RA1Z
162 RA1W
163 RA2Z
164 RA2W
165 GND
166 VDD
167 RSD0
168 RSD1
169 RSD2
170 RSD3
171 RSE
172 N.C
173 TCF0
174 TCF1
175 TCV
176 VARE
177 VBRE
178 N.C
179 N.C
180 GND
181 RSC
182 GND
183 VDD
184 RIC
185 GND
186 BCD0
187 BCD1
188 BCD2
189 BCD3
190 BCD4
191 BCD5
192 BCD6
193 BCD7
194 VDD
195 GND
196 BTCE
197 BCDR
198 BTDR
199 RYI0
200 RYI1
201 RYI2
202 RYI3
203 RYI4
204 RYI5
205 RYI6
206 RYI7
207 N.C
208 VDD
156 GND
155 GND
154 RXE
153 RXD3
152 RXD2
151 RXD1
150 RXD0
149 TST1
148 GND
147 RBD7
146 RBD6
145 RBD5
144 RBD4
143 RBD3
142 RBD2
141 RBD1
140 RBD0
139 RBQ
138 RBC
137 RBE
136 GND
135 RST
134 HIZ
133 TDO
132 TDI
131 GND
130 VDD
129 TMS
128 TRS
127 TCK
126 PFP
125 PBQ
124 PBC
123 PBE
122 PBD7
121 PBD6
120 PBD5
119 PBD4
118 PBD3
117 PBD2
116 PBD1
115 PBD0
114 GND
113 VDD
112 PEE
111 PSE
110 PSD3
109 PSD2
108 PSD1
107 PSD0
106 GND
105 GND
104 VDD
103 TST3
102 TST2
101 PFV
100 PFC
99 PFS
98 PFF
97 PCE
96 PCN
95 PCF1
94 PCF0
93 AAD13
92 AAD12
91 AAD11
90 AAD10
89 AAD9
88 AAD8
87 AAD7
86 AAD6
85 AAD5
84 AAD4
83 AAD3
82 N.C
81 GND
80 PSC
79 GND
78 VDD
77 PIC
76 AAD2
75 AAD1
74 AAD0
73 ATE
72 ALV
71 ASE
70 ALP
69 APF
68 BFRM
67 VDD
66 BTL9
65 VTL8
64 BTL7
63 GND
62 GND
61 BTL6
60 BTL5
59 BTL4
58 BTL3
57 GND
56 BTL2
55 BTL1
54 BTL0
53 VDD
1 GND
2 GND
3 RCF0
4 RCF1
5 RCV
6 INH
7 INV
8 RFP
9 N.C
10 N.C
11 SRM
12 SAM
13 SCS
14 SRD
15 SEN
16 SAE
17 SD0
18 SD1
19 SD2
20 GND
21 SD3
22 SD4
23 SD5
24 SD6
25 SD7
26 GND
27 VDD
28 SAL0
29 SAL1
30 SAL2
31 SAL3
32 SAL4
33 SAL5
34 PVD0
35 PVD1
36 PVD2
37 PVD3
38 PVD4
39 PVD5
40 PVD6
41 PVD7
42 N.C
43 N.C
44 N.C
45 PVE
46 PDE
47 PHD
48 PVB
49 VAPE
50 VBPE
51 GND
52 GND

Ref No. 800～849

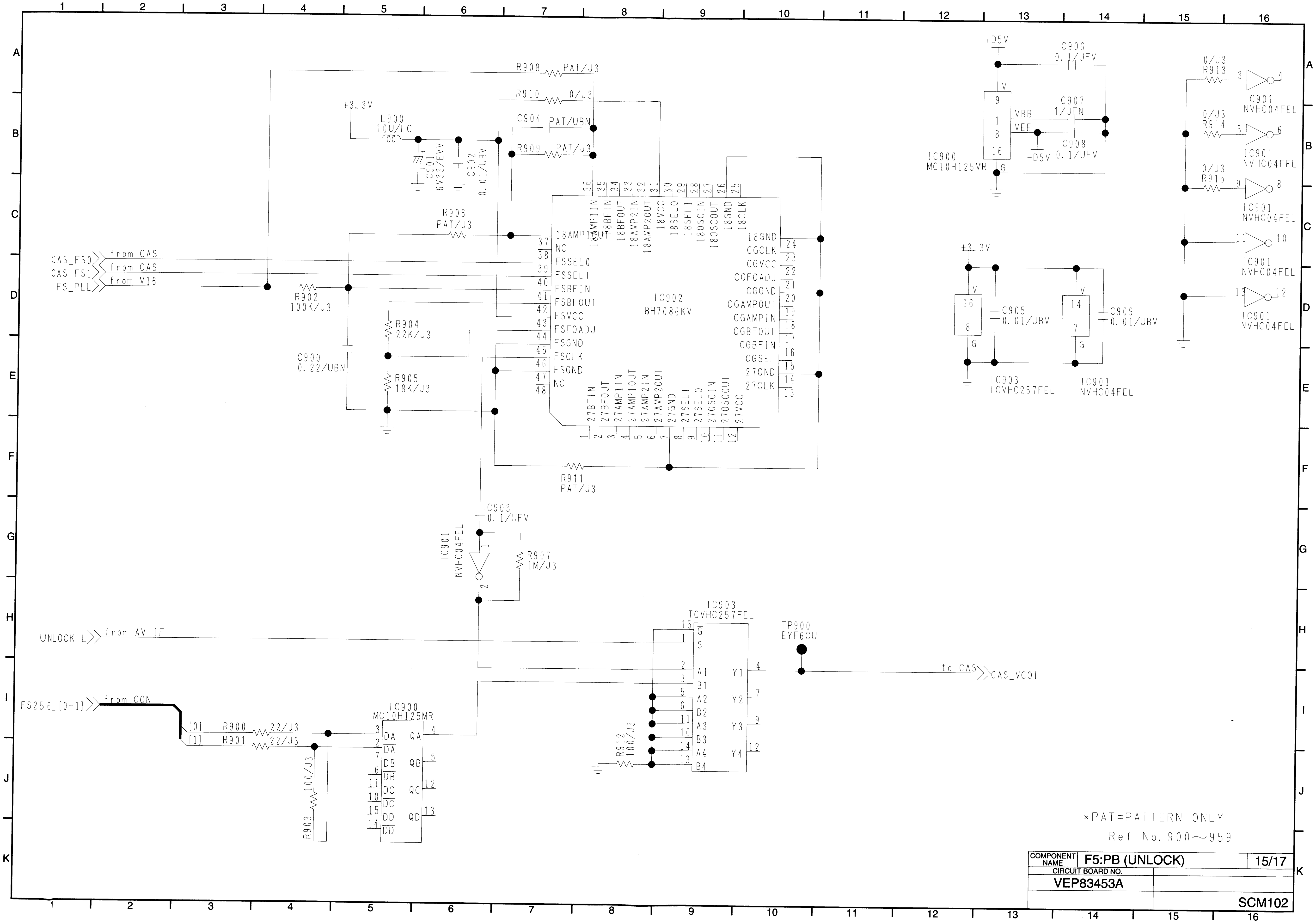
COMPONENT NAME	F5:PB (VDAT)	13/17
CIRCUIT BOARD NO.		
VEP83453A		
		SCM00

KR3W30(13/17)


P850
VJP4064N160C
A
NO
B
+D5V
AV_ADR5 [0-7]
from AV_IF
AV_DAT5 [0-7]
PAL_H
SEAM_MOD5 [0-1]
from M16
AV_IORD5_L
AV_IOWR5_L
AV_CS2_L
AV_CS5_L
AV_RST5_L
R850 1000/J3
R851 1000/J3
R852 1000/J3
R853 1000/J3
R854 1000/J3
R855 1000/J3
R856 1000/J3
R857 1000/J3
R879 10K/J3
R881 10K/J3
R880 PAT/J3
R882 PAT/J3
+3.3V
R883 10K/J3
R884 10K/J3
R885 10K/J3
FRM27_REC
FRM27_PB
VBLK_CLK18
from IN_PLL
from PP
CAS_FRP
from FT1
EDA_FRP
R894 0/J3
R896 PAT/J3
R895 0/J3
R897 PAT/J3
EDA_SSP
from CAS
CAS_SSP
DIF_BUS_P [0-7]
to CON
TXT_SIG
TXT_GATE
LPF_SEL1
V_BLK_MAIN
V_BLK_SUB
to IN_PLL
from M16_BUS
SLW_CTL_5V [0-2]
R858 1000/J3
R859 1000/J3
R860 1000/J3
VBLK_CLK27
REC_HD
REC_VD
HD_PB
V_CSYNC
CLK135
from CON
AV_CS6_L
VBLK_PB
FRP_PB
R861 1000/J3
R862 1000/J3
R863 1000/J3
R864 1000/J3
R865 1000/J3
R866 1000/J3
R867 1000/J3
R868 1000/J3
R878 PAT/J3
R886 10K/J3
to PP
BLK_DATA [0-7]
R869 1000/J3
R870 1000/J3
R871 1000/J3
R872 1000/J3
R873 1000/J3
R874 1000/J3
R875 1000/J3
R876 1000/J3
PLD_CTL [0-2]
PLD_TD5
to F420
TD10
B_CONT [0-2]
PLD_TD4
from VDAT
TD9
R877 0/J3
R887 10K/J3
R888 10K/J3
R889 10K/J3
R890 10K/J3
R891 10K/J3
R892 10K/J3
R893 10K/J3
-A9V
-D5V
+3.3V
+7.5V
+A9V
Ref No. 850～899

COMPONENT NAME F5:PB (V BLK) 14/17
CIRCUIT BOARD NO.
VEP83453A
SCM101

KR3W30(14/17)

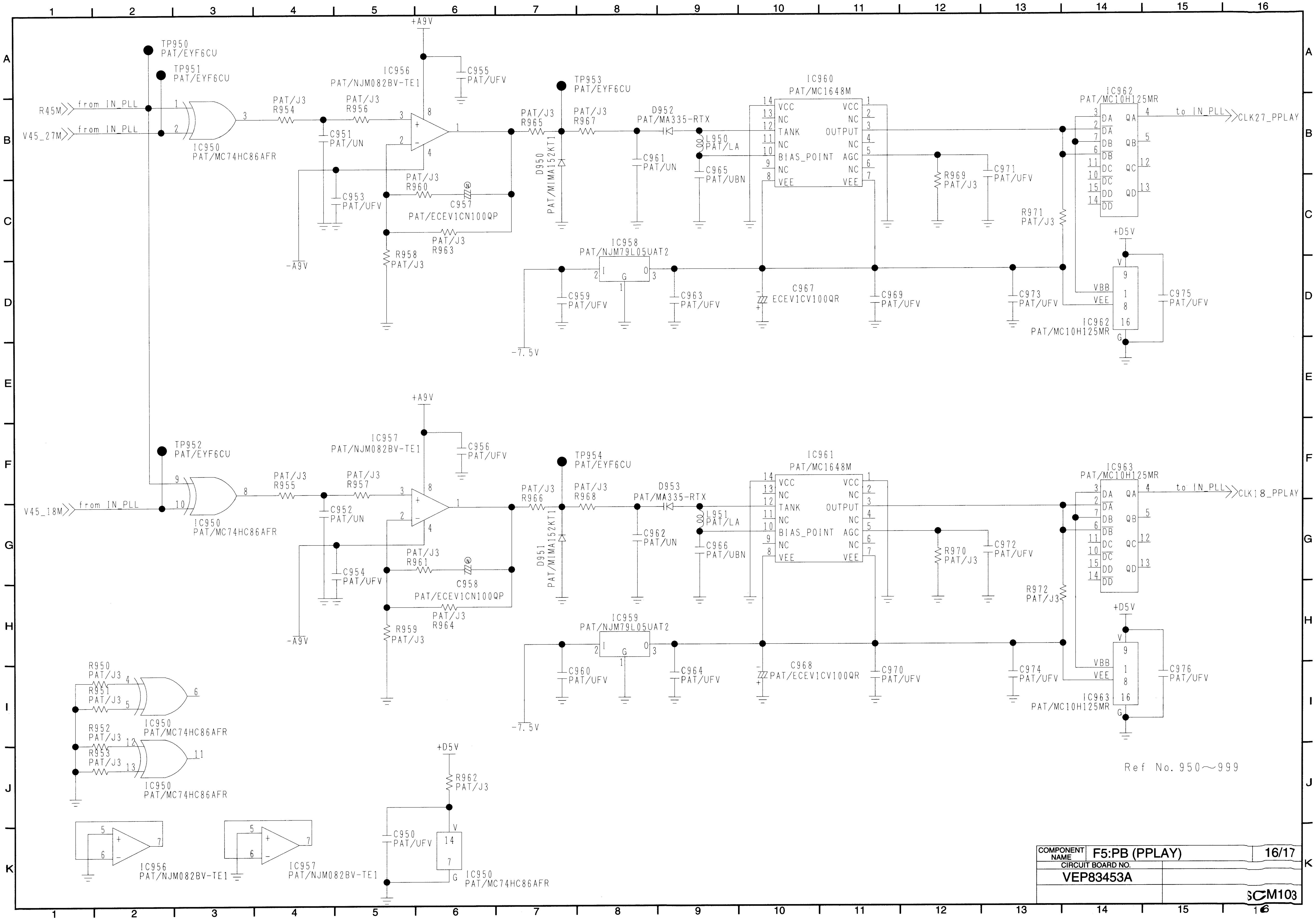

R908 PAT/J3
R910 0/J3
+3.3V
L900 10U/LC
C904 PAT/UBN
R909 PAT/J3
C901 6V33/EVV
C902 0.01/UBV
R906 PAT/J3
CAS_FS0 from CAS
CAS_FS1 from CAS
FS_PLL from M16
R902 100K/J3
R904 22K/J3
R905 18K/J3
C900 0.22/UBN
IC902 BH7086KV
18AMP1IN
18BFIN
18BFOUT
18AMP2IN
18AMP2OUT
18VCC
18SEL0
18SEL1
18OSCIN
18OSCOUT
18GND
18CLK
18AMP1OUT
NC
FSSEL0
FSSEL1
FSBFIN
FSBFOUT
FSVCC
FSFOADJ
FSGND
FSCLK
FSGND
NC
18GND
CGCLK
CGVCC
CGFOADJ
CGGND
CGAMPOUT
CGAMPIN
CGBFOUT
CGBFIN
CGSEL
27GND
27CLK
27BFIN
27BFOUT
27AMP1IN
27AMP1OUT
27AMP2IN
27AMP2OUT
27GND
27SEL1
27SEL0
27OSCIN
27OSCOUT
27VCC
R911 PAT/J3
C903 0.1/UFV
IC901 NVHC04FEL
R907 1M/J3
+D5V
C906 0.1/UFV
C907 1/UFN
C908 0.1/UFV
VBB
VEE
-D5V
IC900 MC10H125MR
0/J3 R913
0/J3 R914
0/J3 R915
IC901 NVHC04FEL
+3.3V
C905 0.01/UBV
C909 0.01/UBV
IC903 TCVHC257FEL
IC901 NVHC04FEL
UNLOCK_L from AV_IF
IC903 TCVHC257FEL
TP900 EYF6CU
to CAS CAS_VCOI
FS256_[0-1] from CON
[0] R900 22/J3
[1] R901 22/J3
R903 100/J3
IC900 MC10H125MR
DA QA
DB QB
DC QC
DD QD
R912 100/J3
G S A1 B1 A2 B2 A3 B3 A4 B4
Y1 Y2 Y3 Y4

*PAT=PATTERN ONLY

Ref No. 900～959

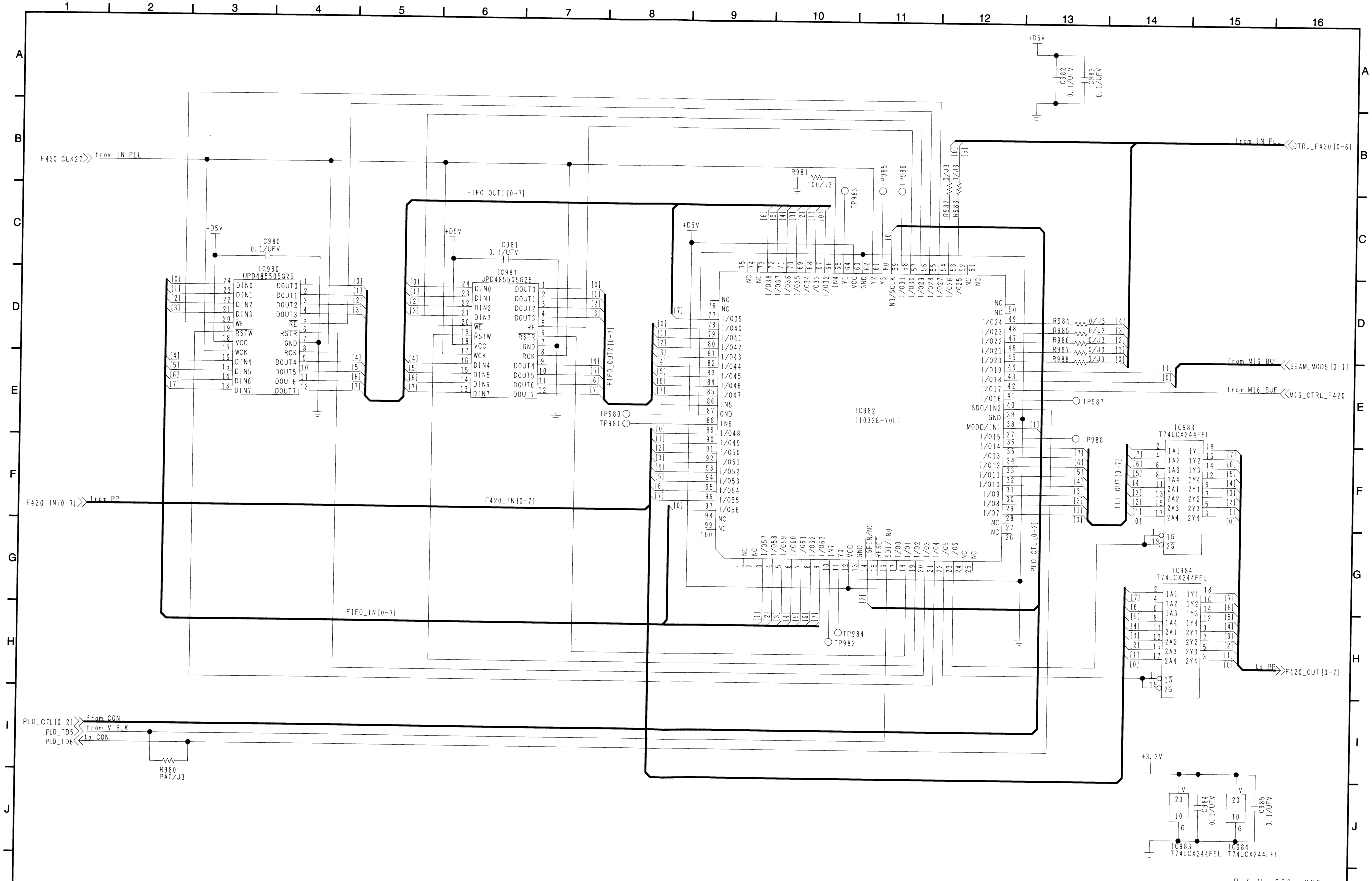
COMPONENT NAME	F5:PB (UNLOCK)	15/17
CIRCUIT BOARD NO.		
VEP83453A		SCM102

KR3W30(15/17)


TP950 PAT/EYF6CU
TP951 PAT/EYF6CU
R45M from IN_PLL
V45_27M from IN_PLL
IC950 PAT/MC74HC86AFR
PAT/J3 R954
PAT/J3 R956
IC956 PAT/NJM082BV-TE1
+A9V
C955 PAT/UFV
C951 PAT/UN
C953 PAT/UFV
PAT/J3 R960
C957 PAT/ECEV1CN100QP
R958 PAT/J3
PAT/J3 R963
-A9V
TP953 PAT/EYF6CU
PAT/J3 R965
PAT/J3 R967
D950 PAT/MIMA152KT1
D952 PAT/MA335-RTX
C961 PAT/UN
L950 PAT/LA
C965 PAT/UBN
IC960 PAT/MC1648M
VCC NC TANK NC BIAS_POINT NC VEE
VCC NC OUTPUT NC AGC NC VEE
R969 PAT/J3
C971 PAT/UFV
IC958 PAT/NJM79L05UAT2
C959 PAT/UFV
C963 PAT/UFV
C967 ECEV1CV100QR
C969 PAT/UFV
-7.5V
IC962 PAT/MC10H125MR
DA DA DB DB DC DC DD DD
QA QB QC QD
to IN_PLL CLK27_PPLAY
R971 PAT/J3
+D5V
VBB VEE
C973 PAT/UFV
C975 PAT/UFV
TP952 PAT/EYF6CU
V45_18M from IN_PLL
PAT/J3 R955
PAT/J3 R957
IC957 PAT/NJM082BV-TE1
C956 PAT/UFV
C952 PAT/UN
C954 PAT/UFV
PAT/J3 R961
C958 PAT/ECEV1CN100QP
R959 PAT/J3
PAT/J3 R964
TP954 PAT/EYF6CU
PAT/J3 R966
PAT/J3 R968
D951 PAT/MIMA152KT1
D953 PAT/MA335-RTX
C962 PAT/UN
L951 PAT/LA
C966 PAT/UBN
IC961 PAT/MC1648M
R970 PAT/J3
C972 PAT/UFV
IC959 PAT/NJM79L05UAT2
C960 PAT/UFV
C964 PAT/UFV
C968 PAT/ECEV1CV100QR
C970 PAT/UFV
C974 PAT/UFV
IC963 PAT/MC10H125MR
to IN_PLL CLK18_PPLAY
R972 PAT/J3
C976 PAT/UFV
R950 PAT/J3
R951 PAT/J3
R952 PAT/J3
R953 PAT/J3
IC956 PAT/NJM082BV-TE1
IC957 PAT/NJM082BV-TE1
R962 PAT/J3
C950 PAT/UFV
IC950 PAT/MC74HC86AFR
Ref No. 950～999

COMPONENT NAME	F5:PB (PPLAY)	16/17
CIRCUIT BOARD NO.		
VEP83453A		
		SCM103

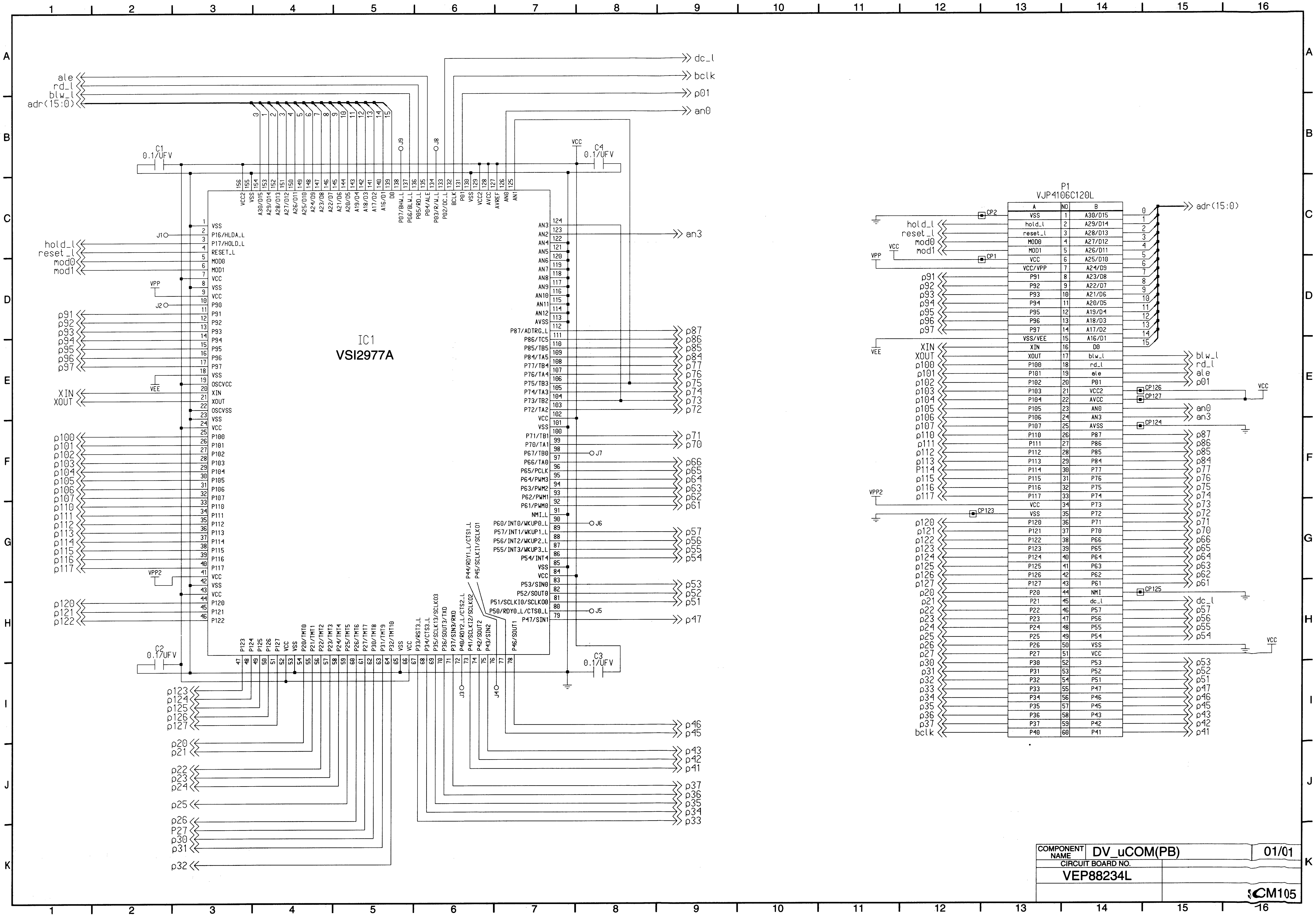
KR3W30(16/17)


F420_CLK27 from IN_PLL
F420_IN[0-7] from PP
PLD_CTL[0-2] from CON
PLD_TD5 from V_BLK
PLD_TD6 to CON
R980 PAT/J3
IC980 UPD485505G25
C980 0.1/UFV
IC981 UPD485505G25
C981 0.1/UFV
+D5V
FIFO_OUT1[0-7]
FIFO_OUT2[0-7]
FIFO_IN[0-7]
F420_IN[0-7]
IC982 11032E-70LT
R981 100/J3
TP980
TP981
TP982
TP983
TP984
TP985
TP986
TP987
TP988
R982 0/J3
R983 0/J3
R984 0/J3
R985 0/J3
R986 0/J3
R987 0/J3
R988 0/J3
C982 0.1/UFV
C983 0.1/UFV
CTRL_F420[0-6] from IN_PLL
SEAM_MOD5[0-1] from M16_BUF
M16_CTRL_F420 from M16_BUF
IC983 T74LCX244FEL
IC984 T74LCX244FEL
FLT_OUT[0-7]
PLD_CTL[0-2]
F420_OUT[0-7] to PP
+3.3V
C984 0.1/UFV
C985 0.1/UFV

Ref No. 980〜999

COMPONENT NAME	F5:PB (F420)	17/17
CIRCUIT BOARD NO.		
VEP83453A		
		SCM104

KR3W30(17/17)


IC1
VSI2977A
P1
VJP4106C120L
C1 0.1/UFV
C2 0.1/UFV
C3 0.1/UFV
C4 0.1/UFV
ale
rd_l
blw_l
adr(15:0)
dc_l
bclk
p01
an0
an3
hold_l
reset_l
mod0
mod1
XIN
XOUT
VCC
VPP
VPP2
VEE
J1
J2
J3
J4
J5
J6
J7
J8
J9
CP1
CP2
CP123
CP124
CP125
CP126
CP127

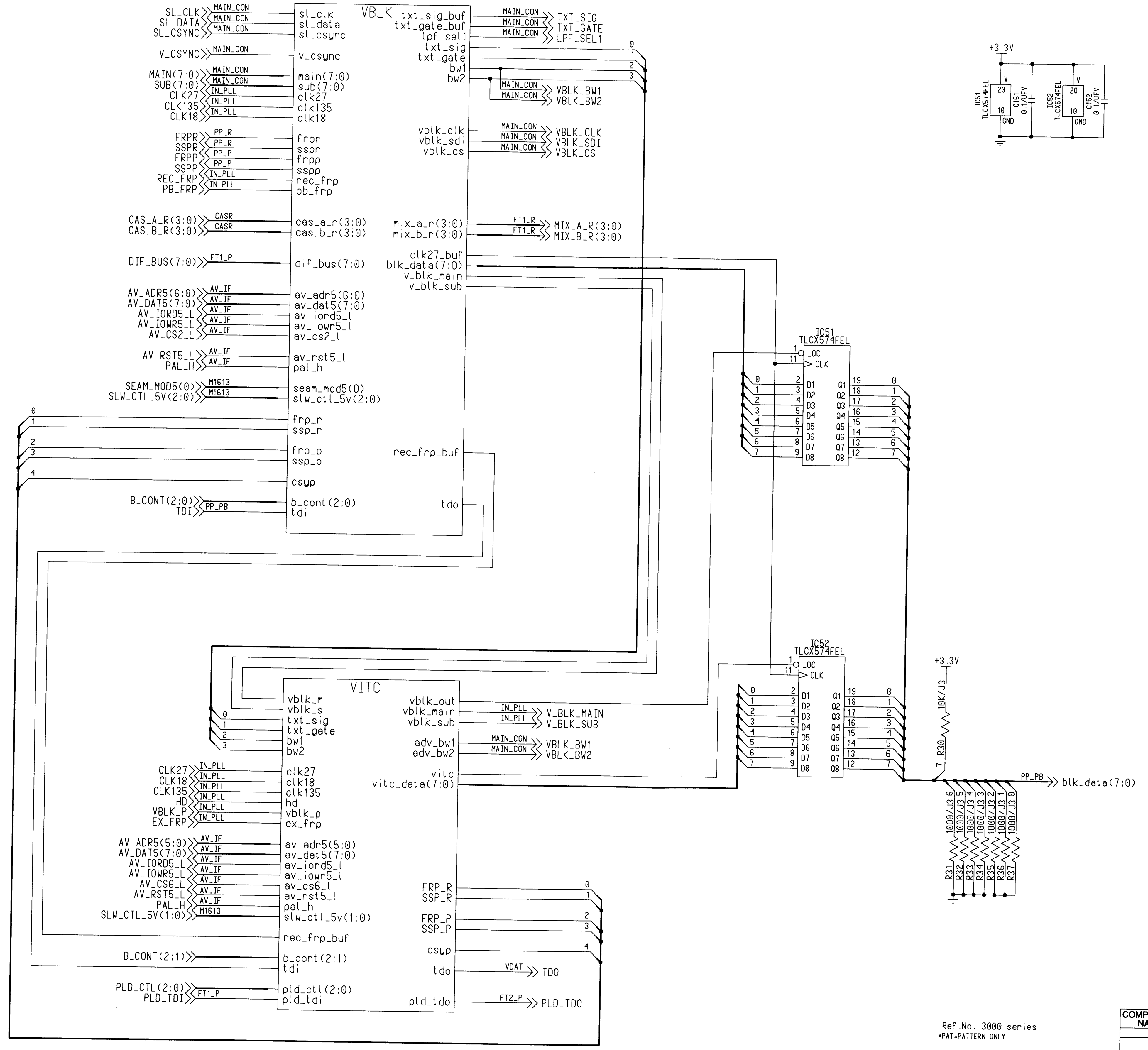
COMPONENT NAME DV_uCOM(PB) 01/01

CIRCUIT BOARD NO.

VEP88234L

CM105

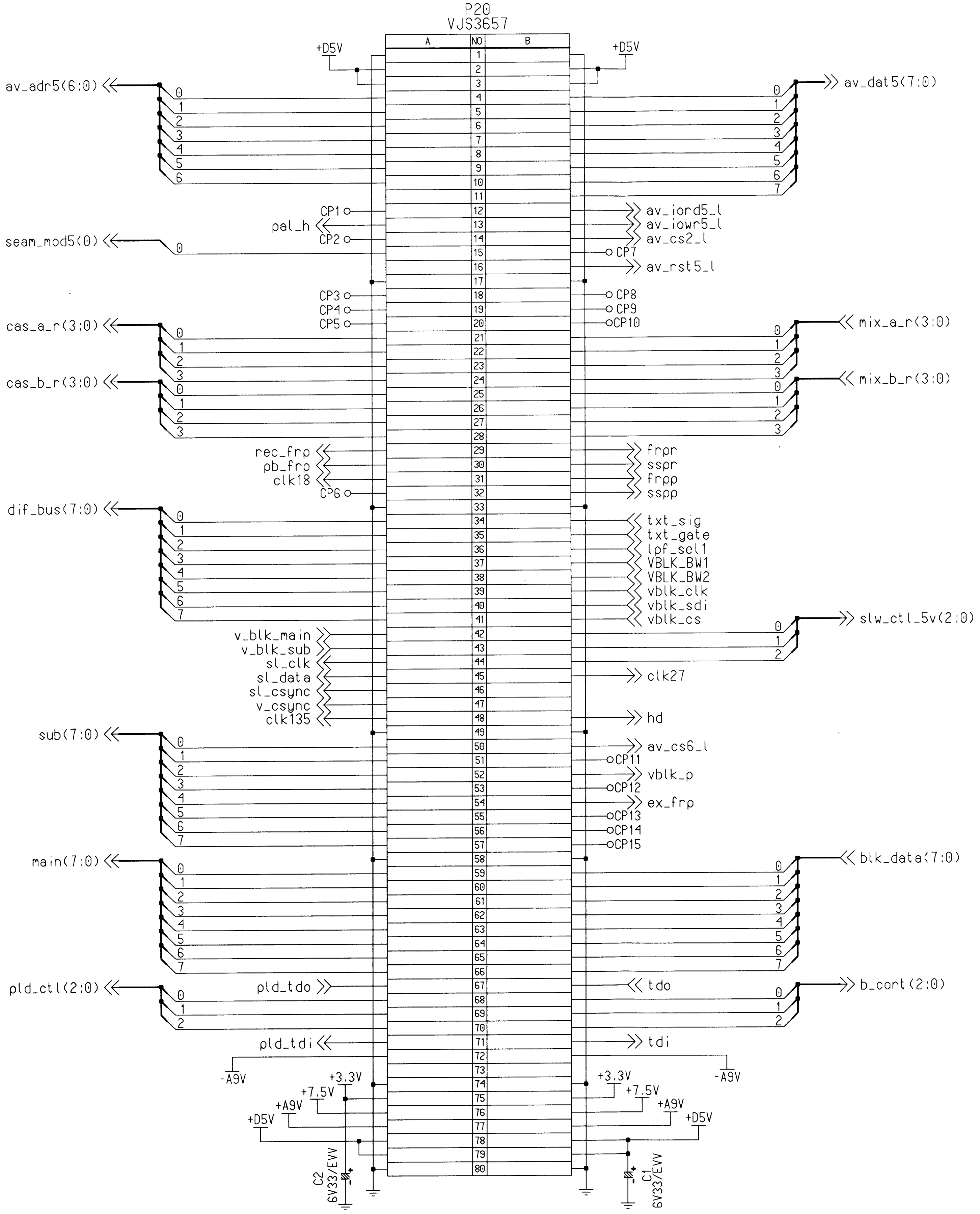
KR8717(1/1)


VBLK
SL_CLK
SL_DATA
SL_CSYNC
V_CSYNC
MAIN(7:0)
SUB(7:0)
CLK27
CLK135
CLK18
FRPR
SSPR
FRPP
SSPP
REC_FRP
PB_FRP
CAS_A_R(3:0)
CAS_B_R(3:0)
DIF_BUS(7:0)
AV_ADR5(6:0)
AV_DAT5(7:0)
AV_IORD5_L
AV_IOWR5_L
AV_CS2_L
AV_RST5_L
PAL_H
SEAM_MOD5(0)
SLW_CTL_5V(2:0)
B_CONT(2:0)
TDI
MAIN_CON
IN_PLL
PP_R
PP_P
PP_PB
CASR
FT1_P
AV_IF
M1613
sl_clk
sl_data
sl_csync
v_csync
main(7:0)
sub(7:0)
clk27
clk135
clk18
frpr
sspr
frpp
sspp
rec_frp
pb_frp
cas_a_r(3:0)
cas_b_r(3:0)
dif_bus(7:0)
av_adr5(6:0)
av_dat5(7:0)
av_iord5_l
av_iowr5_l
av_cs2_l
av_rst5_l
pal_h
seam_mod5(0)
slw_ctl_5v(2:0)
frp_r
ssp_r
frp_p
ssp_p
csyp
b_cont(2:0)
tdi
txt_sig_buf
txt_gate_buf
lpf_sel1
txt_sig
txt_gate
bw1
bw2
vblk_clk
vblk_sdi
vblk_cs
mix_a_r(3:0)
mix_b_r(3:0)
clk27_buf
blk_data(7:0)
v_blk_main
v_blk_sub
rec_frp_buf
tdo
TXT_SIG
TXT_GATE
LPF_SEL1
VBLK_BW1
VBLK_BW2
VBLK_CLK
VBLK_SDI
VBLK_CS
FT1_R
MIX_A_R(3:0)
MIX_B_R(3:0)
+3.3V
IC51
TLCX574FEL
IC52
TLCX574FEL
C151
0.1/UFV
C152
0.1/UFV
V
20
10
GND
_OC
CLK
D1
D2
D3
D4
D5
D6
D7
D8
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
VITC
vblk_m
vblk_s
txt_sig
txt_gate
bw1
bw2
clk27
clk18
clk135
hd
vblk_p
ex_frp
av_adr5(5:0)
av_dat5(7:0)
av_iord5_l
av_iowr5_l
av_cs6_l
av_rst5_l
pal_h
slw_ctl_5v(1:0)
rec_frp_buf
b_cont(2:1)
tdi
pld_ctl(2:0)
pld_tdi
vblk_out
vblk_main
vblk_sub
adv_bw1
adv_bw2
vitc
vitc_data(7:0)
FRP_R
SSP_R
FRP_P
SSP_P
csyp
tdo
pld_tdo
CLK27
CLK18
CLK135
HD
VBLK_P
EX_FRP
AV_ADR5(5:0)
AV_DAT5(7:0)
AV_IORD5_L
AV_IOWR5_L
AV_CS6_L
AV_RST5_L
PAL_H
SLW_CTL_5V(1:0)
B_CONT(2:1)
PLD_CTL(2:0)
PLD_TDI
V_BLK_MAIN
V_BLK_SUB
VBLK_BW1
VBLK_BW2
VDAT
TDO
FT2_P
PLD_TDO
10K/J3
R30
R31
R32
R33
R34
R35
R36
R37
1000/J3
PP_PB
blk_data(7:0)

Ref.No. 3000 series
*PAT=PATTERN ONLY

COMPONENT NAME	V BLK(V_BLK_SUB(sheet1))	01/05
CIRCUIT BOARD NO.		
VEP88235A		
		SCM106

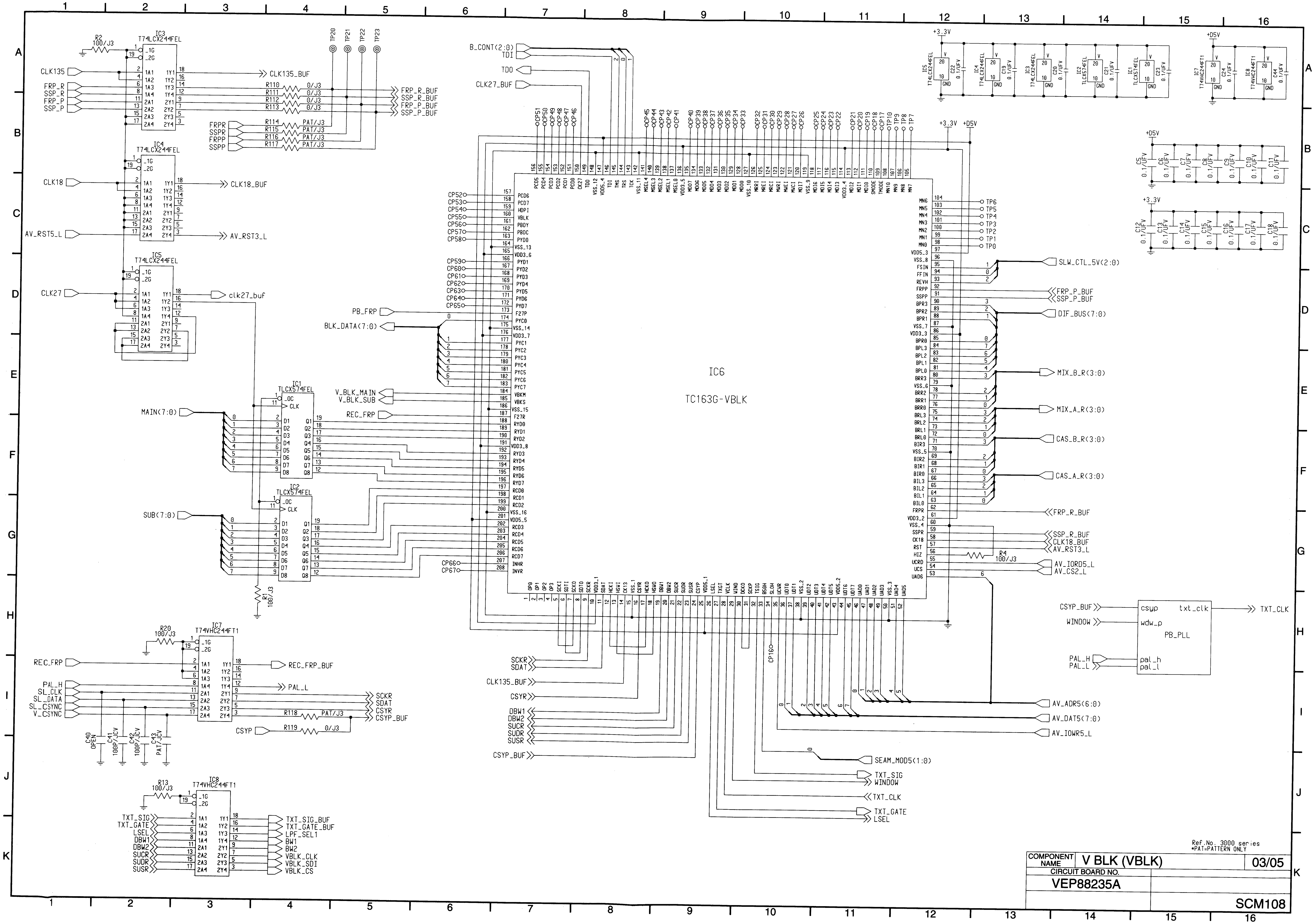
KR8716(1/5)


P20
VJS3657
A
NO
B
+D5V
av_adr5(6:0)
av_dat5(7:0)
CP1
pal_h
CP2
seam_mod5(0)
av_iord5_l
av_iowr5_l
av_cs2_l
CP7
av_rst5_l
CP3
CP4
CP5
CP8
CP9
CP10
cas_a_r(3:0)
mix_a_r(3:0)
cas_b_r(3:0)
mix_b_r(3:0)
rec_frp
pb_frp
clk18
CP6
frpr
sspr
frpp
sspp
dif_bus(7:0)
txt_sig
txt_gate
lpf_sel1
VBLK_BW1
VBLK_BW2
vblk_clk
vblk_sdi
vblk_cs
slw_ctl_5v(2:0)
v_blk_main
v_blk_sub
sl_clk
sl_data
sl_csync
v_csync
clk135
clk27
hd
sub(7:0)
av_cs6_l
CP11
vblk_p
CP12
ex_frp
CP13
CP14
CP15
main(7:0)
blk_data(7:0)
pld_ctl(2:0)
pld_tdo
tdo
b_cont(2:0)
pld_tdi
tdi
-A9V
+3.3V
+7.5V
+A9V
C2
6V33/EVV
C1
6V33/EVV

KR8716(2/5)

Ref.No. 3000 series
*PAT=PATTERN ONLY

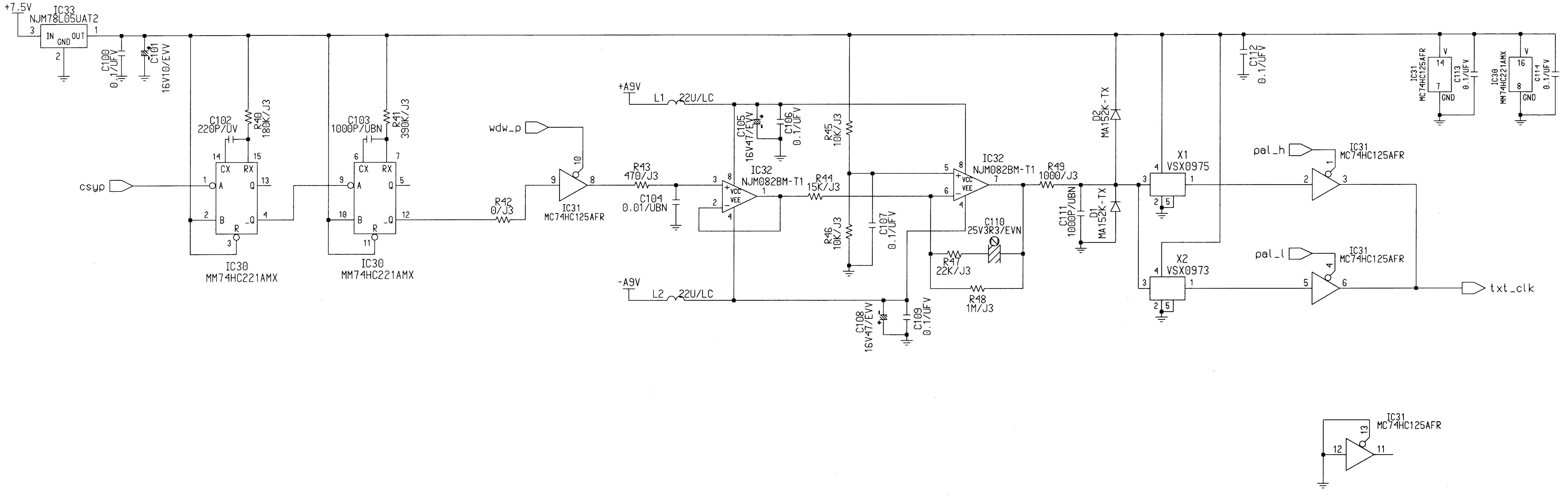
COMPONENT NAME	V BLK(V_BLK_SUB(sheet2))	02/05
CIRCUIT BOARD NO.		
VEP88235A		
		SC M107


IC3 T74LCX244FEL
IC4 T74LCX244FEL
IC5 T74LCX244FEL
IC1 TLCX574FEL
IC2 TLCX574FEL
IC7 T74VHC244FT1
IC8 T74VHC244FT1
IC6
TC163G-VBLK
PB_PLL
R2 100/J3
R20 100/J3
R13 100/J3
R4 100/J3
R1 100/J3
R110 0/J3
R111 0/J3
R112 0/J3
R113 0/J3
R114 PAT/J3
R115 PAT/J3
R116 PAT/J3
R117 PAT/J3
R118 PAT/J3
R119 0/J3
TP20
TP21
TP22
TP23
CLK135
FRP_R
SSP_R
FRP_P
SSP_P
CLK135_BUF
FRP_R_BUF
SSP_R_BUF
FRP_P_BUF
SSP_P_BUF
FRPR
SSPR
FRPP
SSPP
CLK18
CLK18_BUF
AV_RST5_L
AV_RST3_L
CLK27
clk27_buf
PB_FRP
BLK_DATA(7:0)
V_BLK_MAIN
V_BLK_SUB
REC_FRP
MAIN(7:0)
SUB(7:0)
B_CONT(2:0)
TDI
TDO
CLK27_BUF
REC_FRP_BUF
PAL_H
SL_CLK
SL_DATA
SL_CSYNC
V_CSYNC
PAL_L
SCKR
SDAT
CSYR
CSYP_BUF
CSYP
C40 OPEN
C41 100P/JCV
C42 100P/JCV
C43 PAT/JCV
TXT_SIG
TXT_GATE
LSEL
DBW1
DBW2
SUCR
SUDR
SUSR
TXT_SIG_BUF
TXT_GATE_BUF
LPF_SEL1
BW1
BW2
VBLK_CLK
VBLK_SDI
VBLK_CS
+3.3V
+D5V
C5 – C24, C44 0.1/UFV
SLW_CTL_5V(2:0)
FRP_P_BUF
SSP_P_BUF
DIF_BUS(7:0)
MIX_B_R(3:0)
MIX_A_R(3:0)
CAS_B_R(3:0)
CAS_A_R(3:0)
FRP_R_BUF
SSP_R_BUF
CLK18_BUF
AV_RST3_L
AV_IORD5_L
AV_CS2_L
CSYP_BUF
WINDOW
PAL_H
PAL_L
TXT_CLK
csyp
wdw_p
pal_h
pal_l
txt_clk
SCKR
SDAT
CLK135_BUF
CSYR
DBW1
DBW2
SUCR
SUDR
SUSR
CSYP_BUF
AV_ADR5(6:0)
AV_DAT5(7:0)
AV_IOWR5_L
SEAM_MOD5(1:0)
TXT_SIG
WINDOW
TXT_CLK
TXT_GATE
LSEL
CP16
CP52 – CP67
OCP1 – OCP51
TP0 – TP10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

Ref.No. 3000 series
*PAT=PATTERN ONLY

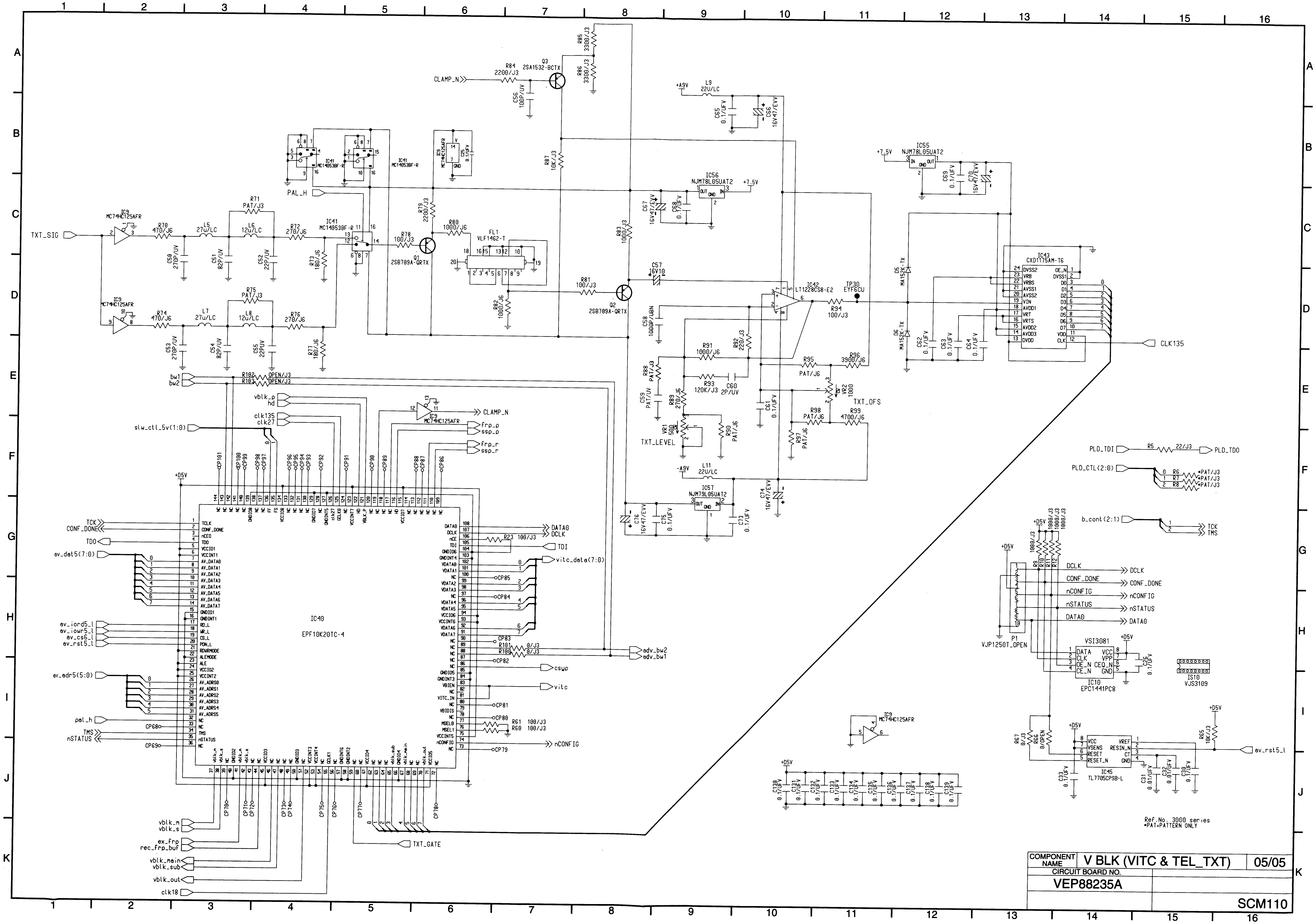
COMPONENT NAME	V BLK (VBLK)	03/05
CIRCUIT BOARD NO.		
VEP88235A		
		SCM108

KR8716(3/5)


+7.5V
IC33
NJM78L05UAT2
3
IN
GND
OUT
1
2
C100
0.1/UFV
C101
16V10/EVV
C102
220P/UV
R40
180K/J3
14
15
CX
RX
csyp
1
A
Q
13
2
B
_Q
4
R
3
IC30
MM74HC221AMX
C103
1000P/UBN
R41
390K/J3
6
7
CX
RX
9
A
Q
5
10
B
_Q
12
R
11
IC30
MM74HC221AMX
R42
0/J3
wdw_p
10
9
8
IC31
MC74HC125AFR
R43
470/J3
C104
0.01/UBN
+A9V
L1
22U/LC
C105
16V47/EVV
C106
0.1/UFV
3
8
2
1
4
VCC
VEE
IC32
NJM082BM-T1
-A9V
L2
22U/LC
C108
16V47/EVV
C109
0.1/UFV
R44
15K/J3
R45
10K/J3
R46
10K/J3
C107
0.1/UFV
5
6
8
7
4
VCC
VEE
IC32
NJM082BM-T1
C110
25V3R3/EVN
R47
22K/J3
R48
1M/J3
R49
1000/J3
C111
1000P/UBN
D2
MA152K-TX
D1
MA152K-TX
C112
0.1/UFV
X1
VSX0975
4
3
1
2
5
X2
VSX0973
4
3
1
2
5
pal_h
IC31
MC74HC125AFR
1
2
3
pal_l
IC31
MC74HC125AFR
4
5
6
txt_clk
IC31
MC74HC125AFR
V
14
7
GND
C113
0.1/UFV
IC30
MM74HC221AMX
V
16
8
GND
C114
0.1/UFV
IC31
MC74HC125AFR
13
12
11

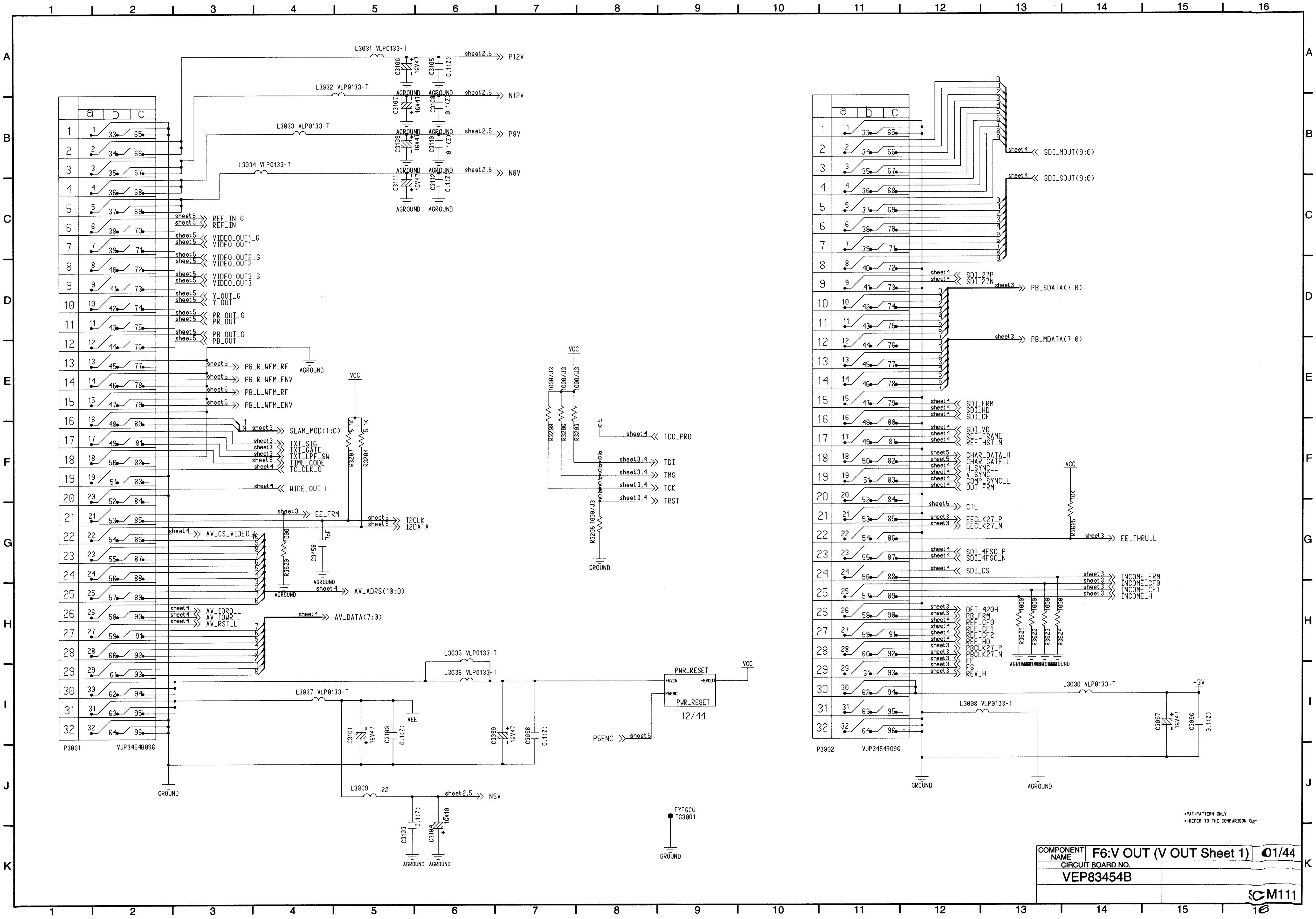
Ref.No. 3000 series
*PAT=PATTERN ONLY

COMPONENT NAME	V BLK (PB_PLL)	04/05
CIRCUIT BOARD NO.		
VEP88235A		
	SCM109	


TXT_SIG
CLAMP_N
PAL_H
IC9 MC74HC125AFR
IC41 MC14053BF-R
Q1 2SB709A-QRTX
Q2 2SB709A-QRTX
Q3 2SA1532-BCTX
FL1 VLF1462-T
IC42 LT1228CS8-E2
TP30 EYF6CU
IC43 CXD1175AM-T6
IC55 NJM78L05UAT2
IC56 NJM78L05UAT2
IC57 NJM79L05UAT2
CLK135
TXT_LEVEL
TXT_OFS
+A9V
-A9V
+7.5V
+D5V
bw1
bw2
vblk_p
hd
clk135
clk27
slw_ctl_5v(1:0)
frp_p
ssp_p
frp_r
ssp_r
TCK
CONF_DONE
TDO
TDI
av_dat5(7:0)
av_iord5_l
av_iowr5_l
av_cs6_l
av_rst5_l
av_adr5(5:0)
pal_h
TMS
nSTATUS
IC40
EPF10K20TC-4
DATA0
DCLK
vitc_data(7:0)
adv_bw2
adv_bw1
csync
vitc
nCONFIG
vblk_m
vblk_s
ex_frp
rec_frp_buf
vblk_main
vblk_sub
vblk_out
clk18
TXT_GATE
PLD_TDI
PLD_TDO
PLD_CTL(2:0)
*PAT/J3
b_cont(2:1)
P1 VJP1250T_OPEN
VSI3081
IC10 EPC1441PC8
IS10 VJS3109
IC45 TL7705CPSB-L
Ref.No. 3000 series
*PAT=PATTERN ONLY

COMPONENT NAME	V BLK (VITC & TEL_TXT)	05/05
CIRCUIT BOARD NO.		
VEP88235A		
		SCM110

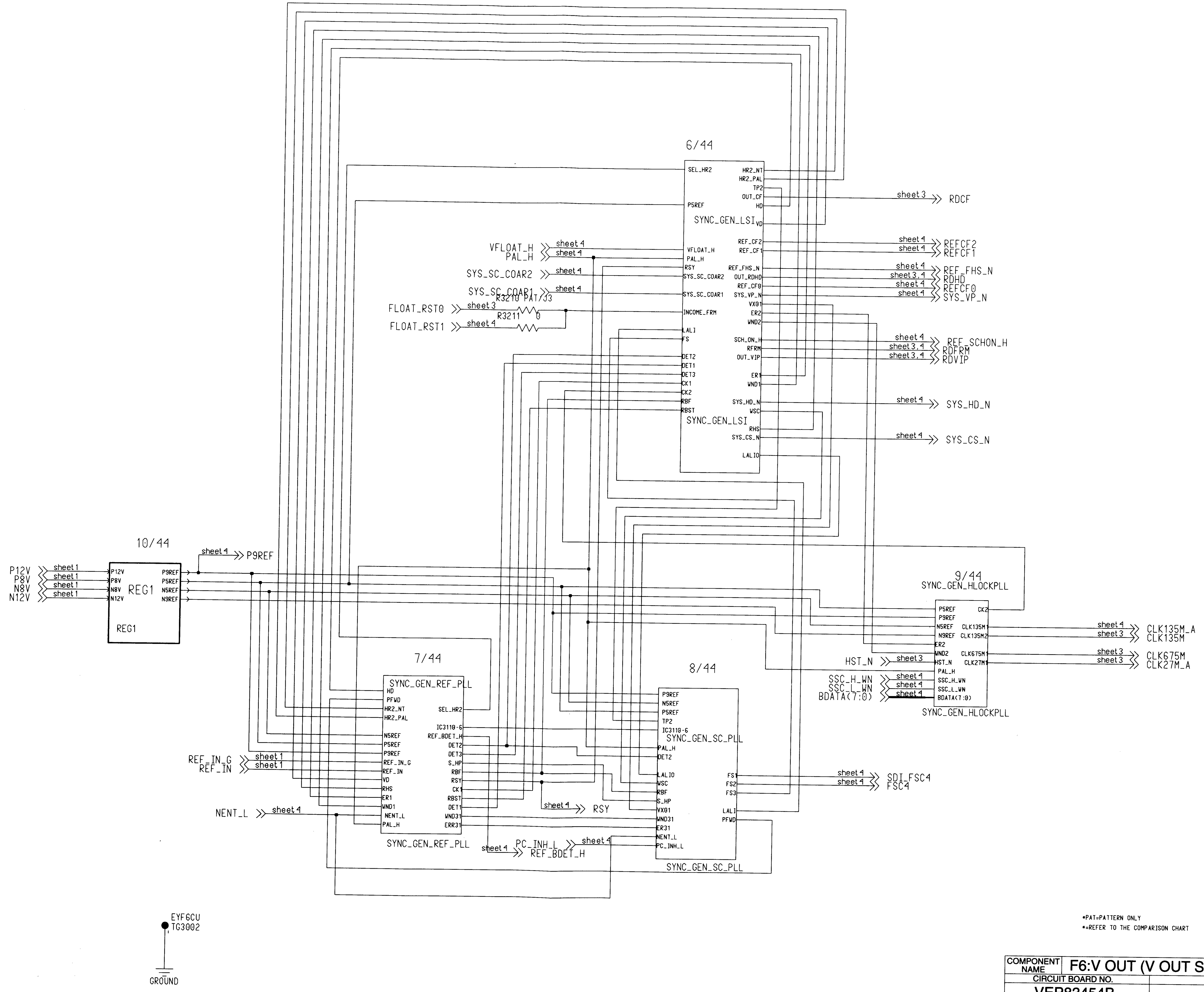
KR8716(5/5)


P3001 VJP3454B096
P3002 VJP3454B096
L3031 VLP0133-T
L3032 VLP0133-T
L3033 VLP0133-T
L3034 VLP0133-T
L3035 VLP0133-T
L3036 VLP0133-T
L3037 VLP0133-T
L3030 VLP0133-T
L3008 VLP0133-T
L3009 22
P12V
N12V
P8V
N8V
N5V
+3V
VEE
VCC
GROUND
AGROUND
REF_IN_G
REF_IN
VIDEO_OUT1_G
VIDEO_OUT1
VIDEO_OUT2_G
VIDEO_OUT2
VIDEO_OUT3_G
VIDEO_OUT3
Y_OUT_G
Y_OUT
PR_OUT_G
PR_OUT
PB_OUT_G
PB_OUT
PB_R_WFM_RF
PB_R_WFM_ENV
PB_L_WFM_RF
PB_L_WFM_ENV
SEAM_MOD(1:0)
TXT_SIG
TXT_GATE
TXT_LPF_SW
TIME_CODE
TC_CLK_O
WIDE_OUT_L
EE_FRM
I2CLK
I2DATA
AV_CS_VIDEO
AV_ADRS(10:0)
AV_IORD_L
AV_IOWR_L
AV_RST_L
AV_DATA(7:0)
TDO_PRO
TDI
TMS
TCK
TRST
PWR_RESET
12/44
P5ENC
EYF6CU
TG3001
SDI_MOUT(9:0)
SDI_SOUT(9:0)
SDI_27P
SDI_27N
PB_SDATA(7:0)
PB_MDATA(7:0)
SDI_FRM
SDI_HD
SDI_CF
SDI_VD
REF_FRAME
REF_HST_N
CHAR_DATA_H
CHAR_GATE_L
H_SYNC_L
V_SYNC_L
COMP_SYNC_L
OUT_FRM
CTL
EECLK27_P
EECLK27_N
EE_THRU_L
SDI_4FSC_P
SDI_4FSC_N
SDI_CS
INCOME_FRM
INCOME_CF0
INCOME_CF1
INCOME_H
DET_420H
PB_FRM
REF_CF0
REF_CF1
REF_CF2
REF_HD
PBCLK27_P
PBCLK27_N
FF
FS
REV_H
R3621 1000
R3622 1000
R3623 1000
R3624 1000
R3625 10K
R3201 5.1K
R3204 5.1K
R3620 1000
C3458 1pF
R3208 1000/J3
R3206 1000/J3
R3203 1000/J3
R3205 1000/J3
C3106 16V47
C3105 0.1(Z)
C3107 16V47
C3108 0.1(Z)
C3109 16V47
C3110 0.1(Z)
C3111 16V47
C3112 0.1(Z)
C3101 16V47
C3100 0.1(Z)
C3099 16V47
C3098 0.1(Z)
C3103 0.1(Z)
C3104 6V10
C3097 16V47
C3096 0.1(Z)

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHRT

COMPONENT NAME	F6:V OUT (V OUT Sheet 1)	01/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM111

KR3W40(1/44)

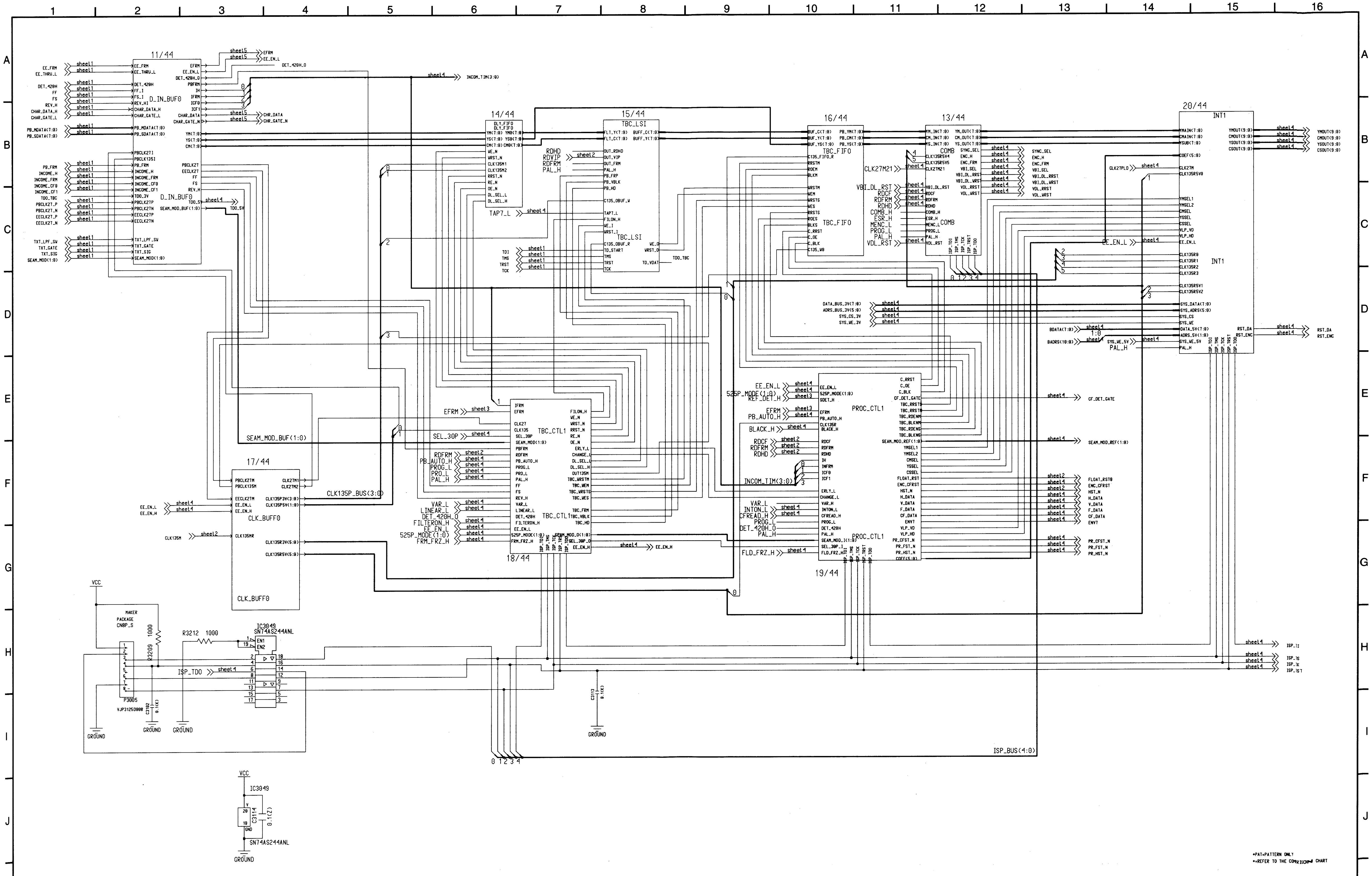

6/44
SYNC_GEN_LSI
SEL_HR2
P5REF
VFLOAT_H
PAL_H
RSY
SYS_SC_COAR2
SYS_SC_COAR1
INCOME_FRM
LALI
FS
DET2
DET1
DET3
CK1
CK2
RBF
RBST
HR2_NT
HR2_PAL
TP2
OUT_CF
HD
VD
REF_CF2
REF_CF1
REF_FHS_N
OUT_RDHD
REF_CF0
SYS_VP_N
VX01
ER2
WND2
SCH_ON_H
RFRM
OUT_VIP
ER1
WND1
SYS_HD_N
WSC
RHS
SYS_CS_N
LALIO
sheet 3 RDCF
sheet 4 REFCF2
sheet 4 REFCF1
sheet 4 REF_FHS_N
sheet 3,4 RDHD
sheet 4 REFCF0
sheet 4 SYS_VP_N
sheet 4 REF_SCHON_H
sheet 3,4 RDFRM
sheet 3,4 RDVIP
sheet 4 SYS_HD_N
sheet 4 SYS_CS_N
VFLOAT_H sheet 4
PAL_H sheet 4
SYS_SC_COAR2 sheet 4
SYS_SC_COAR1 sheet 4
R3210 PAT/J3
FLOAT_RST0 sheet 3
R3211 0
FLOAT_RST1 sheet 4
10/44
REG1
P12V sheet 1
P8V sheet 1
N8V sheet 1
N12V sheet 1
P12V
P8V
N8V
N12V
P9REF
P5REF
N5REF
N9REF
sheet 4 P9REF
7/44
SYNC_GEN_REF_PLL
HD
PFWD
HR2_NT
HR2_PAL
N5REF
P5REF
P9REF
REF_IN_G
REF_IN
VD
RHS
ER1
WND1
NENT_L
PAL_H
SEL_HR2
IC3110-6
REF_BDET_H
DET2
DET3
S_HP
RBF
RSY
CK1
RBST
DET1
WND31
ERR31
REF_IN_G sheet 1
REF_IN sheet 1
NENT_L sheet 4
sheet 4 RSY
sheet 4 REF_BDET_H
PC_INH_L sheet 4
8/44
SYNC_GEN_SC_PLL
P9REF
N5REF
P5REF
TP2
IC3110-6
PAL_H
DET2
LALIO
WSC
RBF
S_HP
VX01
WND31
ER31
NENT_L
PC_INH_L
FS1
FS2
FS3
LALI
PFWD
sheet 4 SDI_FSC4
sheet 4 FSC4
9/44
SYNC_GEN_HLOCKPLL
P5REF
P9REF
N5REF
N9REF
ER2
WND2
HST_N
PAL_H
SSC_H_WN
SSC_L_WN
BDATA(7:0)
CK2
CLK135M1
CLK135M2
CLK675M1
CLK27M1
sheet 4 CLK135M_A
sheet 3 CLK135M
sheet 3 CLK675M
sheet 3 CLK27M_A
HST_N sheet 3
SSC_H_WN sheet 4
SSC_L_WN sheet 4
BDATA(7:0) sheet 4
EYF6CU
TG3002
GROUND

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT (V OUT Sheet 2)	02/44
CIRCUIT BOARD NO.		
VEP83454B		
	SCM112	

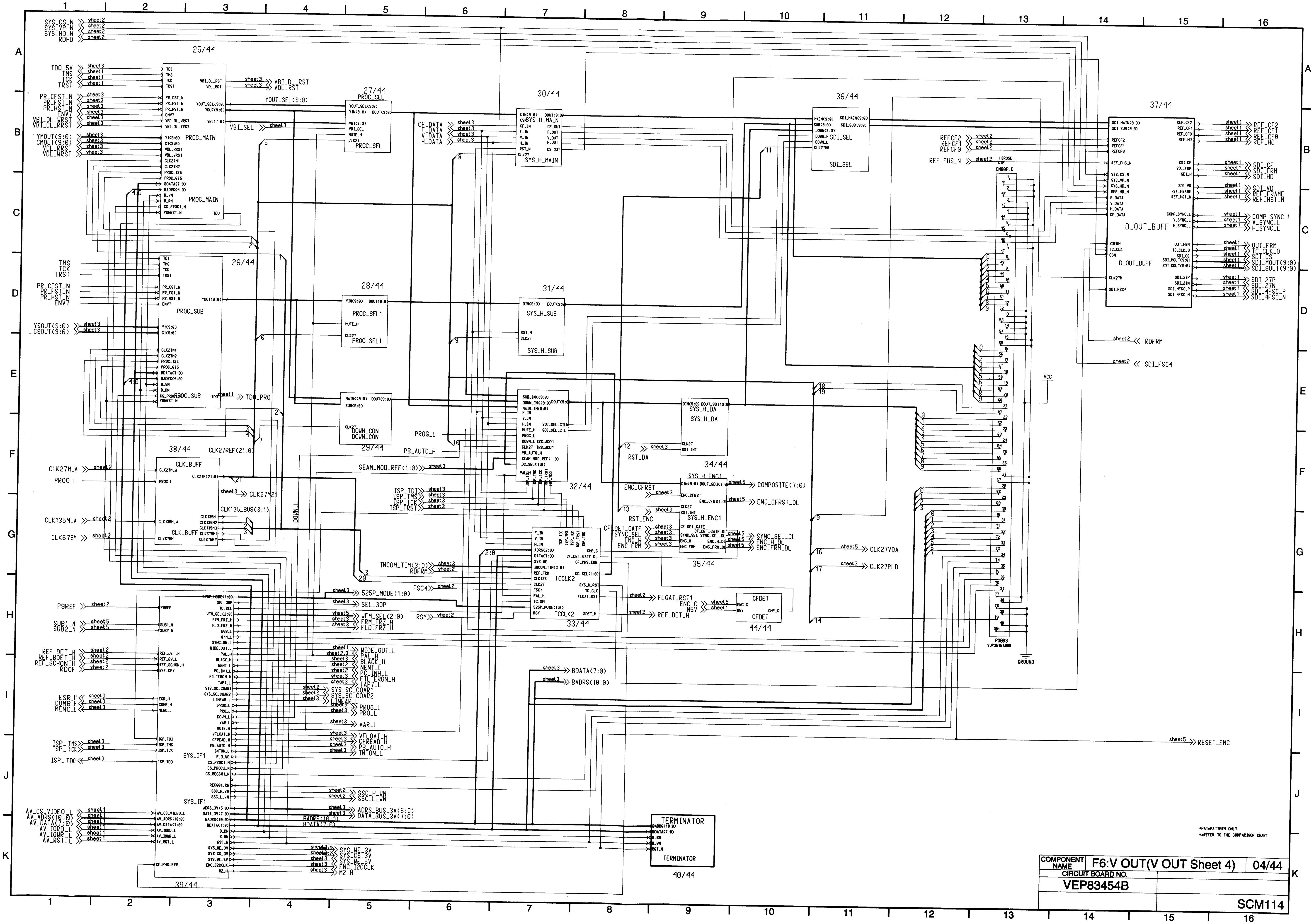
KR3W40(2/44)

KR3W40(3/44)


11/44
D_IN_BUF0
14/44
DLY_FIFO
15/44
TBC_LSI
16/44
TBC_FIFO
13/44
COMB
20/44
INT1
17/44
CLK_BUFF0
18/44
TBC_CTL1
19/44
PROC_CTL1
IC3049
SN74AS244ANL
R3212 1000
R3209 1000
P3005
VJP3125D000
C3102 0.1(K)
C3112 0.1(K)
C3114 0.1(Z)
VCC
GROUND
MAKER
PACKAGE
CN8P_S
ISP_TDO
ISP_BUS(4:0)
SEAM_MOD_BUF(1:0)
CLK135P_BUS(3:0)
INCOM_TIM(3:0)
CLK27M21
TAP7_L
EFRM
SEL_30P
EE_EN_L
PAL_H
BLACK_H
FLD_FRZ_H
sheet1
sheet2
sheet3
sheet4
sheet5

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

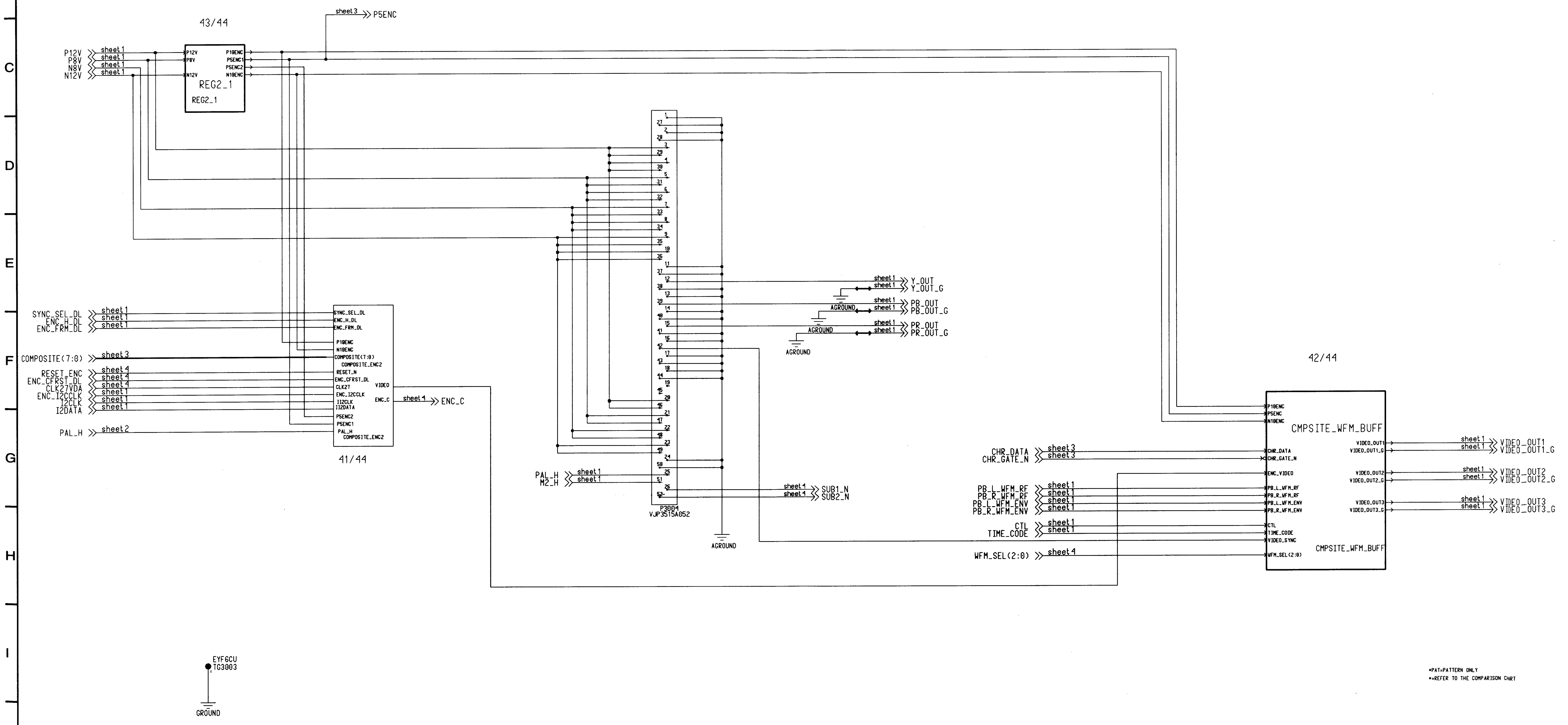
COMPONENT NAME	F6:V OUT(V OUT Sheet 3)	03/44
CIRCUIT BOARD NO.		
VEP83454B		
	SCM113	


25/44
PROC_MAIN
26/44
PROC_SUB
27/44
PROC_SEL
28/44
PROC_SEL1
29/44
DOWN_CON
30/44
SYS_H_MAIN
31/44
SYS_H_SUB
32/44
33/44
TCCLK2
34/44
SYS_H_DA
35/44
SYS_H_ENC1
36/44
SDI_SEL
37/44
D_OUT_BUFF
38/44
CLK_BUFF
39/44
SYS_IF1
40/44
TERMINATOR
44/44
CFDET
CN80P_D
P3993
VCC
GROUND
SYS_CS_N
SYS_VP_N
SYS_HD_N
RDHD
TDO_5V
TMS
TCK
TRST
PR_CFST_N
PR_FST_N
PR_HST_N
ENV7
VBI_DL_WRST
VBI_DL_RRST
YMOUT(9:0)
CMOUT(9:0)
VDL_RRST
VDL_WRST
VBI_DL_RST
VDL_RST
YOUT_SEL(9:0)
VBI_SEL
YSOUT(9:0)
CSOUT(9:0)
TDO_PRO
CLK27M_A
PROG_L
CLK27MREF(21:0)
CLK27M21
CLK135_BUS(3:1)
CLK135M_A
CLK675M
DOWN_L
CF_DATA
F_DATA
V_DATA
H_DATA
PB_AUTO_H
SEAM_MOD_REF(1:0)
ISP_TDI
ISP_TMS
ISP_TCK
ISP_TRST
INCOM_TIM(3:0)
RDFRM
FSC4
RSY
525P_MODE(1:0)
SEL_30P
WFM_SEL(2:0)
FRM_FRZ_H
FLD_FRZ_H
WIDE_OUT_L
PAL_H
BLACK_H
NENT_L
PC_INH_L
FILTERON_H
TAP7_L
SYS_SC_COAR1
SYS_SC_COAR2
LINEAR_L
PROG_L
PRO_L
VAR_L
VFLOAT_H
CFREAD_H
PB_AUTO_H
INTON_L
SSC_H_WN
SSC_L_WN
ADRS_BUS_3V(5:0)
DATA_BUS_3V(7:0)
BADRS(10:0)
BDATA(7:0)
SYS_WE_3V
SYS_CS_3V
SYS_WE_5V
ENC_I2CCLK
M2_H
P9REF
SUB1_N
SUB2_N
REF_DET_H
REF_BDET_H
REF_SCHON_H
RDCF
ESR_H
COMB_H
MENC_L
ISP_TMS
ISP_TCK
ISP_TDO
AV_CS_VIDEO_L
AV_ADRS(10:0)
AV_DATA(7:0)
AV_IORD_L
AV_IOWR_L
AV_RST_L
RST_DA
ENC_CFRST
RST_ENC
CF_DET_GATE
SYNC_SEL
ENC_H
ENC_FRM
COMPOSITE(7:0)
ENC_CFRST_DL
SYNC_SEL_DL
ENC_H_DL
ENC_FRM_DL
FLOAT_RST1
ENC_C
N5V
REF_DET_H
CLK27VDA
CLK27PLD
RESET_ENC
REFCF2
REFCF1
REFCF0
REF_FHS_N
REF_CF2
REF_CF1
REF_CF0
REF_HD
SDI_CF
SDI_FRM
SDI_HD
SDI_VD
REF_FRAME
REF_HST_N
COMP_SYNC_L
V_SYNC_L
H_SYNC_L
OUT_FRM
TC_CLK_O
SDI_CS
SDI_MOUT(9:0)
SDI_SOUT(9:0)
SDI_27P
SDI_27N
SDI_4FSC_P
SDI_4FSC_N
RDFRM
SDI_FSC4
*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT(V OUT Sheet 4)	04/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM114

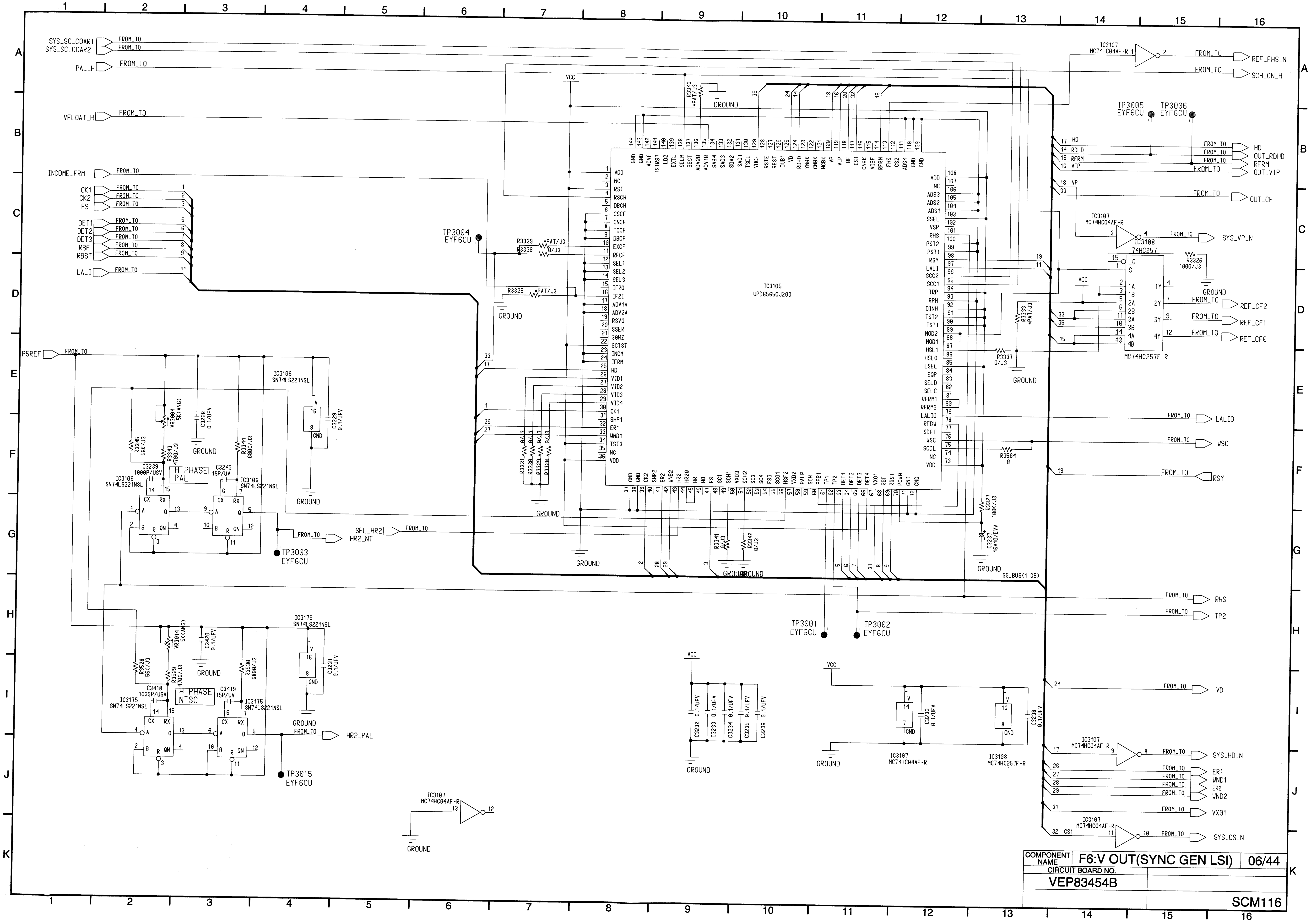
KB3W40(4/44)

KR3W40(5/44)


43/44
P12V
P8V
N8V
N12V
sheet1
REG2_1
P10ENC
P5ENC1
P5ENC2
N10ENC
sheet3
P5ENC
SYNC_SEL_DL
ENC_H_DL
ENC_FRM_DL
COMPOSITE(7:0)
RESET_ENC
ENC_CFRST_DL
CLK27VDA
ENC_I2CCLK
I2CLK
I2DATA
PAL_H
sheet2
sheet3
sheet4
COMPOSITE_ENC2
RESET_N
CLK27
ENC_I2CCLK
II2CLK
II2DATA
VIDEO
ENC_C
41/44
P3004
VJP3515A052
AGROUND
Y_OUT
Y_OUT_G
PB_OUT
PB_OUT_G
PR_OUT
PR_OUT_G
PAL_H
M2_H
SUB1_N
SUB2_N
42/44
CMPSITE_WFM_BUFF
P10ENC
P5ENC
N10ENC
CHR_DATA
CHR_GATE_N
ENC_VIDEO
PB_L_WFM_RF
PB_R_WFM_RF
PB_L_WFM_ENV
PB_R_WFM_ENV
CTL
TIME_CODE
VIDEO_SYNC
WFM_SEL(2:0)
VIDEO_OUT1
VIDEO_OUT1_G
VIDEO_OUT2
VIDEO_OUT2_G
VIDEO_OUT3
VIDEO_OUT3_G
EYF6CU
TG3003
GROUND

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHRT

COMPONENT NAME	F6:V OUT(V OUT Sheet 5)	05/44
CIRCUIT BOARD NO.		
VEP83454B		
	SCM115	


SYS_SC_COAR1
SYS_SC_COAR2
PAL_H
VFLOAT_H
INCOME_FRM
CK1
CK2
FS
DET1
DET2
DET3
RBF
RBST
LALI
P5REF
FROM_TO
VCC
GROUND
IC3105
UPD65650J203
IC3106
SN74LS221NSL
IC3175
SN74LS221NSL
IC3107
MC74HC04AF-R
IC3108
74HC257
MC74HC257F-R
H PHASE PAL
H PHASE NTSC
VR3004 5K(ANG)
VR3014 5K(ANG)
TP3001 EYF6CU
TP3002 EYF6CU
TP3003 EYF6CU
TP3004 EYF6CU
TP3005 EYF6CU
TP3006 EYF6CU
TP3015 EYF6CU
SEL_HR2
HR2_NT
HR2_PAL
SG_BUS(1:35)
REF_FHS_N
SCH_ON_H
HD
OUT_RDHD
RFRM
OUT_VIP
OUT_CF
SYS_VP_N
REF_CF2
REF_CF1
REF_CF0
LALIO
WSC
RSY
RHS
TP2
VD
SYS_HD_N
ER1
WND1
ER2
WND2
VX01
SYS_CS_N

COMPONENT NAME | F6:V OUT(SYNC GEN LSI) | 06/44

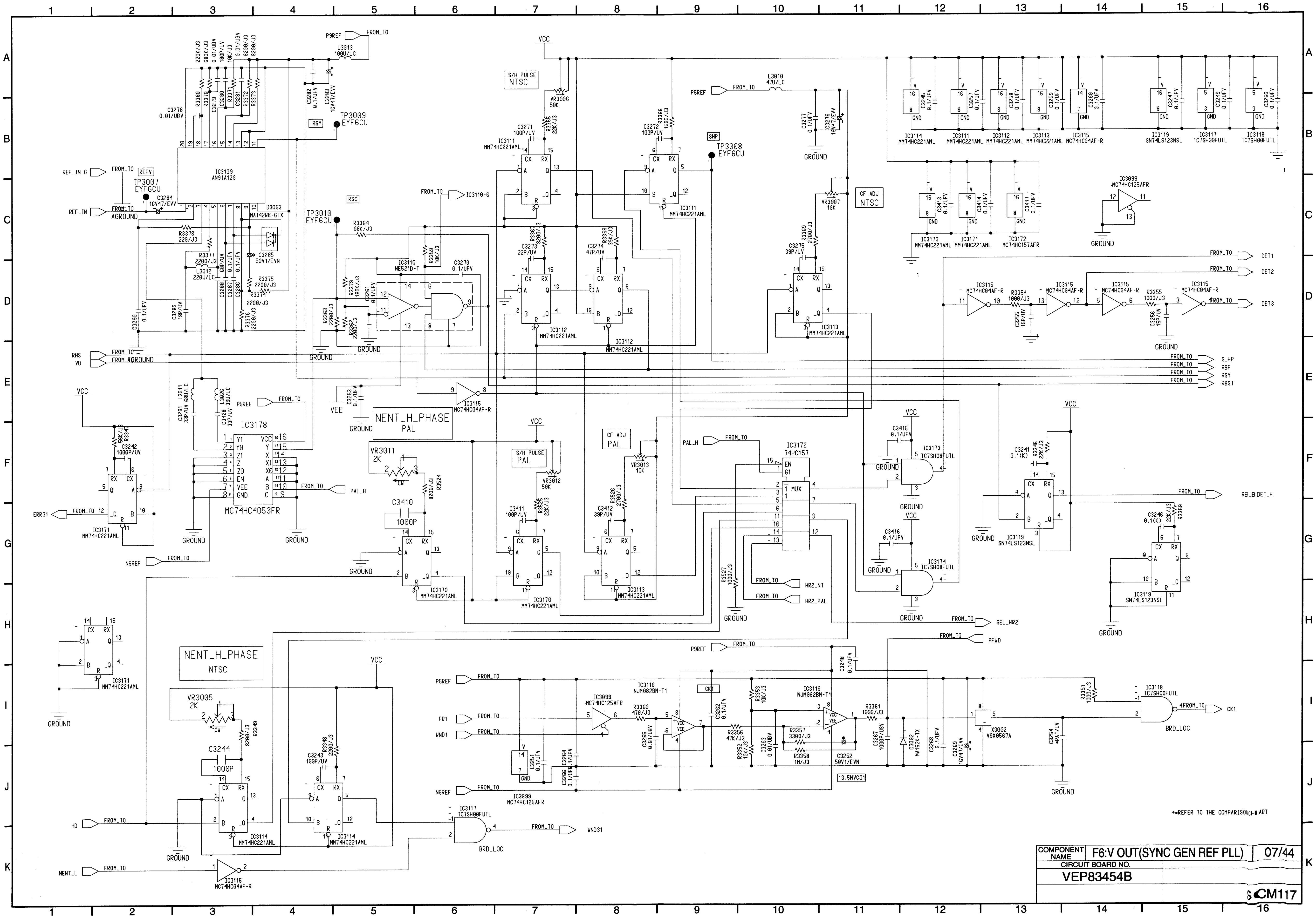
CIRCUIT BOARD NO.

VEP83454B

SCM116

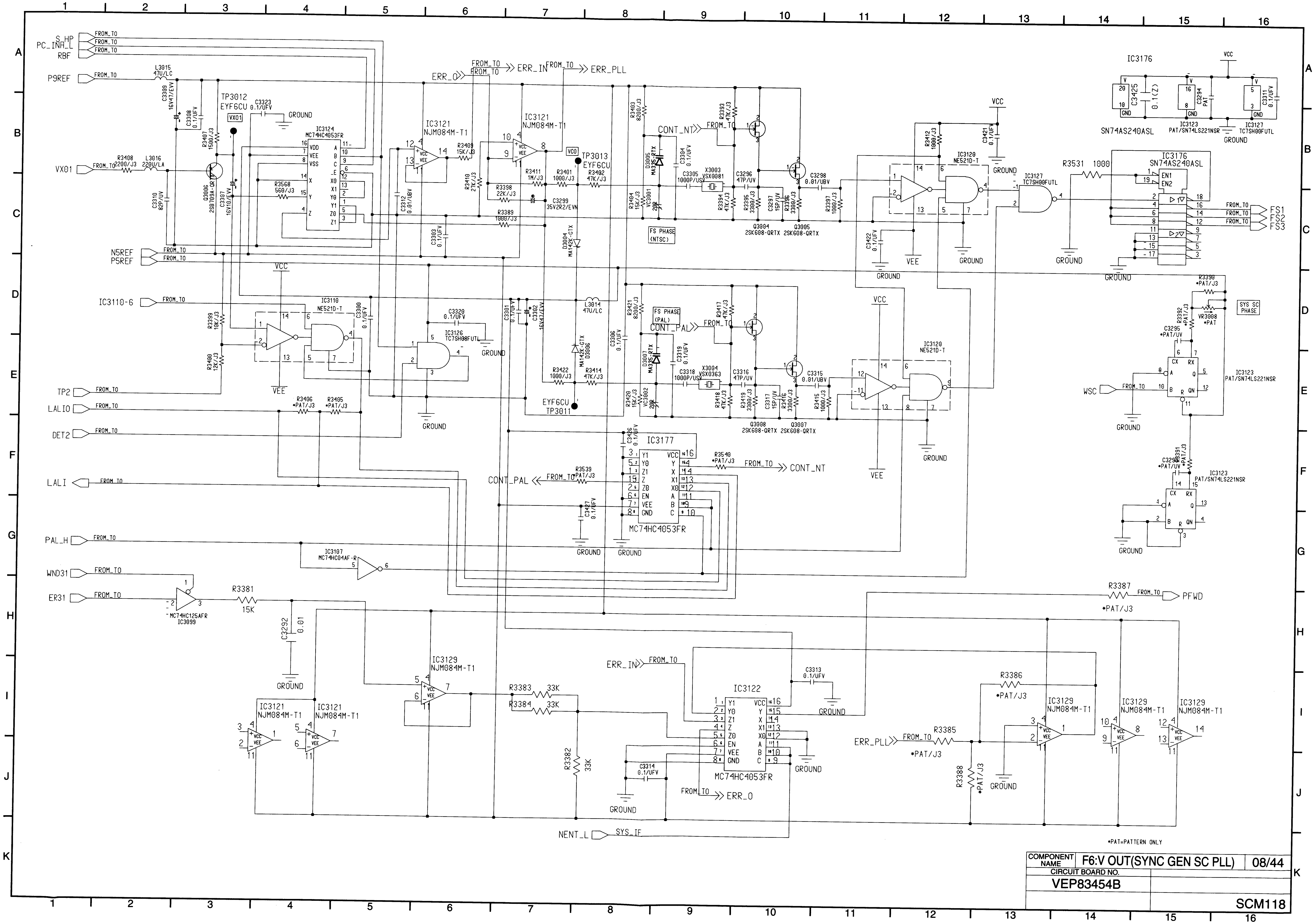
KR3W40(6/44)

KR3W40(7/44)


VCC
GROUND
AGROUND
P5REF
FROM_TO
L3013 100U/LC
TP3009 EYF6CU
RSY
REF_IN_G
REFV
TP3007 EYF6CU
REF_IN
IC3109 AN91A12S
C3284 16V47/EVV
D3003 MA142WK-GTX
C3285 50V1/EVN
L3012 220U/LC
RSC
TP3010 EYF6CU
R3364 68K/J3
IC3110 NE521D-T
C3270 0.1/UFV
FROM_TO IC3110-6
S/H PULSE NTSC
VR3006 50K
IC3111 MM74HC221AML
IC3112 MM74HC221AML
SHP
TP3008 EYF6CU
L3010 47U/LC
CF ADJ NTSC
VR3007 10K
IC3113 MM74HC221AML
IC3114 MM74HC221AML
IC3115 MC74HC04AF-R
IC3119 SN74LS123NSL
IC3117 TC7SH00FUTL
IC3118 TC7SH00FUTL
IC3170 MM74HC221AML
IC3171 MM74HC221AML
IC3172 74HC157
IC3099 MC74HC125AFR
DET1
DET2
DET3
RHS
VD
S_HP
RBF
RSY
RBST
VEE
L3011 68U/LC
L3026 39U/LC
IC3178
MC74HC4053FR
PAL_H
NENT_H_PHASE PAL
VR3011 2K
C3410 1000P
S/H PULSE PAL
VR3012 50K
CF ADJ PAL
VR3013 10K
IC3173 TC7SH08FUTL
IC3174 TC7SH08FUTL
MUX
REF_B DET_H
ERR31
N5REF
HR2_NT
HR2_PAL
SEL_HR2
PFWD
P9REF
NENT_H_PHASE NTSC
VR3005 2K
C3244 1000P
ER1
WND1
IC3116 NJM082BM-T1
CK0
X3002 VSX0567A
13.5MVC01
CK1
HD
WND31
BRD_LOC
NENT_L
A B C D E F G H I J K
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

*=REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT(SYNC GEN REF PLL)	07/44
CIRCUIT BOARD NO.		
VEP83454B		
		S CM117

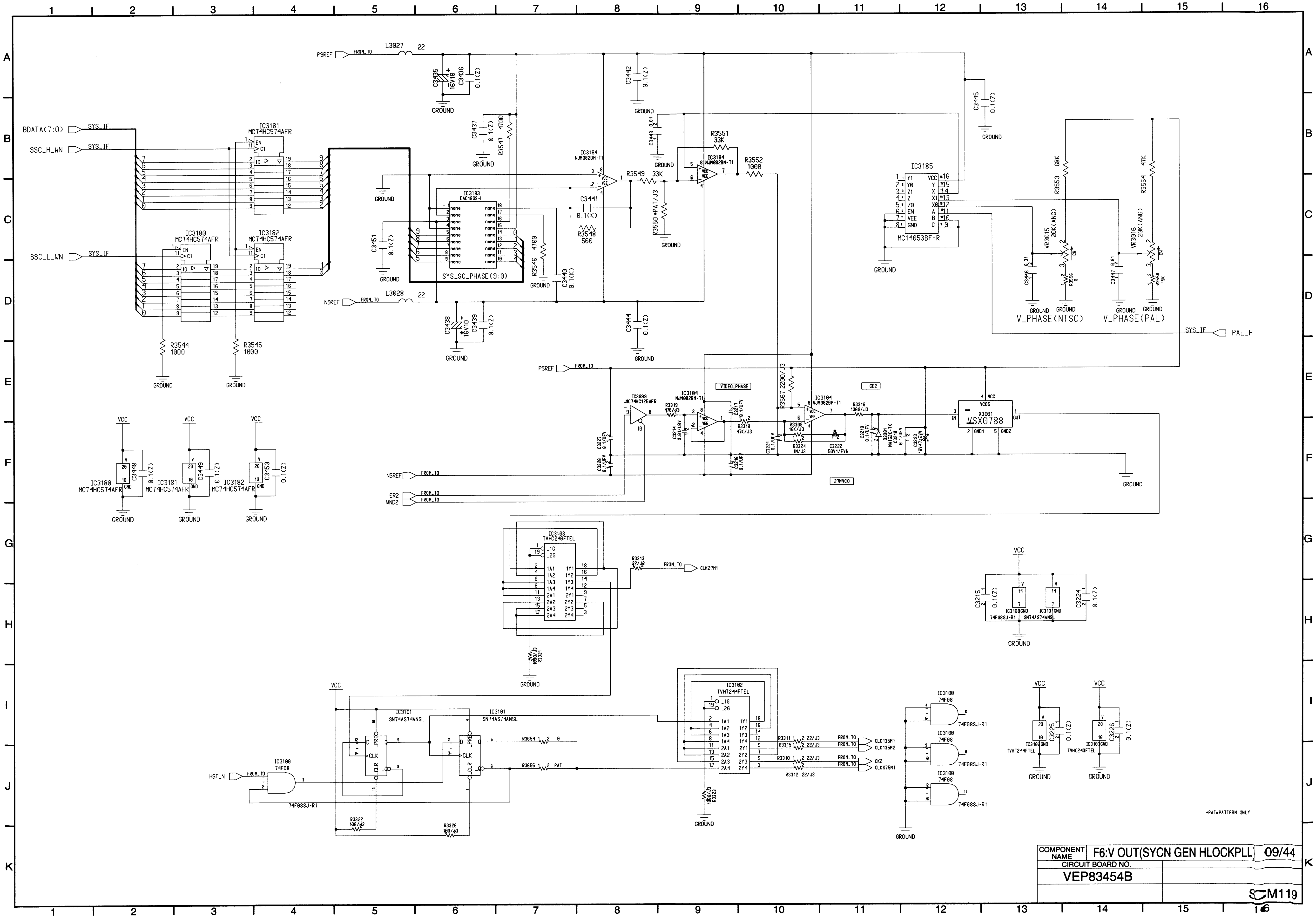

S_HP
PC_INH_L
RBF
P9REF
VX01
N5REF
P5REF
IC3110-6
TP2
LALIO
DET2
LALI
PAL_H
WND31
ER31
TP3012
EYF6CU
VX01
IC3124
MC74HC4053FR
IC3121
NJM084M-T1
ERR_O
ERR_IN
ERR_PLL
TP3013
EYF6CU
VCO
CONT_NT
CONT_PAL
FS PHASE (NTSC)
FS PHASE (PAL)
X3003
VSX0081
X3004
VSX0363
Q3004
Q3005
Q3008
Q3007
2SK608-QRTX
IC3120
NE521D-T
IC3127
TC7SH00FUTL
IC3176
SN74AS240ASL
R3531 1000
FS1
FS2
FS3
IC3123
PAT/SN74LS221NSR
SYS SC PHASE
VR3008
WSC
IC3110
NE521D-T
IC3126
TC7SH08FUTL
IC3177
MC74HC4053FR
TP3011
IC3107
MC74HC04AF-R
IC3099
MC74HC125AFR
R3381 15K
C3292 0.01
IC3129
NJM084M-T1
R3383 33K
R3384 33K
R3382 33K
IC3122
MC74HC4053FR
ERR_IN
R3387
PFWD
R3386
R3385
R3388
ERR_PLL
NENT_L
SYS_IF
VCC
VEE
GROUND
*PAT=PATTERN ONLY

COMPONENT NAME	F6:V OUT(SYNC GEN SC PLL)	08/44
CIRCUIT BOARD NO.		
VEP83454B		

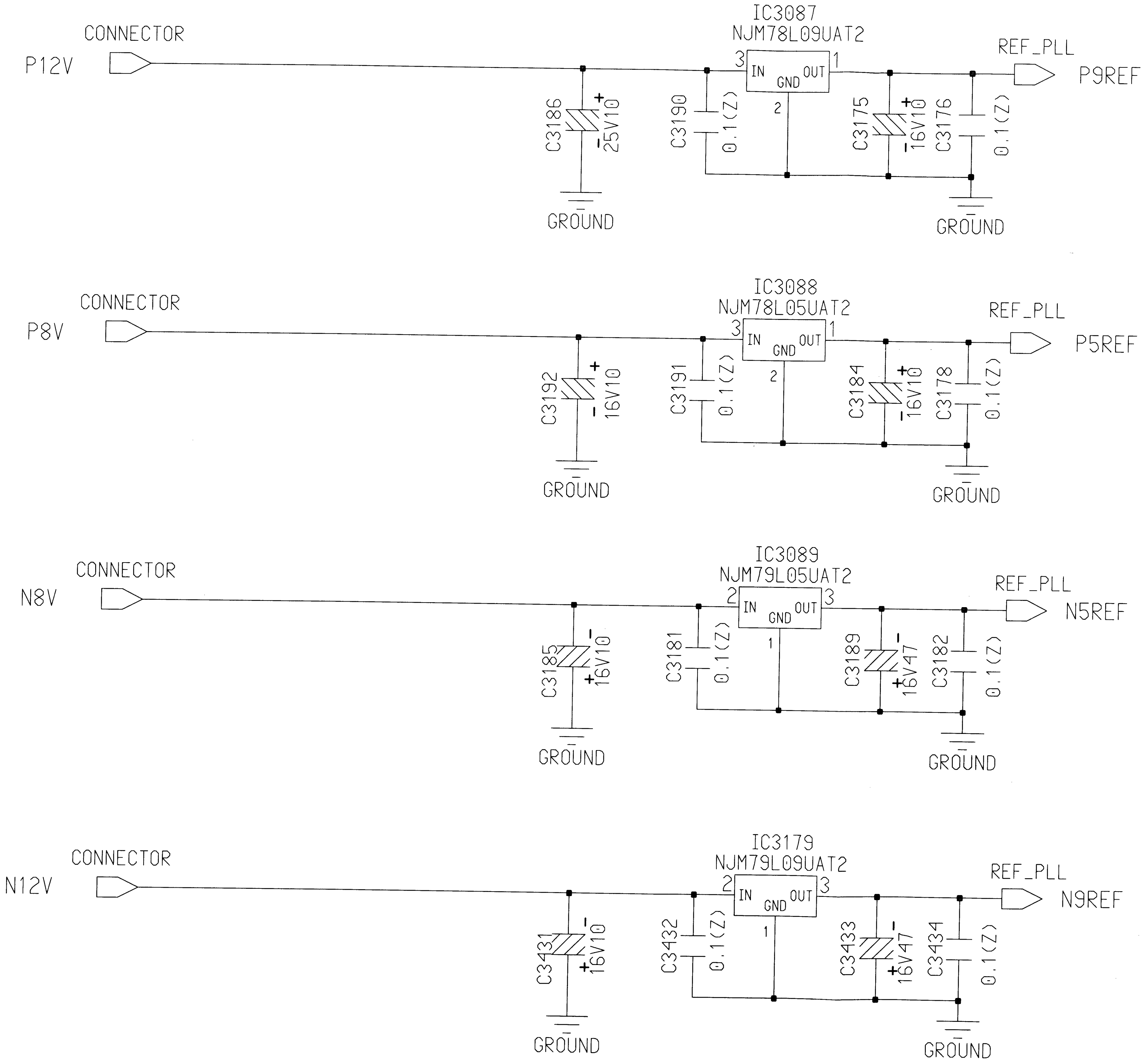
SCM118

KR3W40(8/44)

KR3W40(9/44)


BDATA(7:0)
SYS_IF
SSC_H_WN
SSC_L_WN
IC3181 MC74HC574AFR
IC3180 MC74HC574AFR
IC3182 MC74HC574AFR
EN
C1
1D
R3544 1000
R3545 1000
GROUND
P9REF
FROM_TO
L3027 22
C3435 16V10
C3436 0.1(Z)
C3437 0.1(Z)
R3547 4700
IC3183 DAC10GS-L
SYS_SC_PHASE(9:0)
C3451 0.1(Z)
R3546 4700
C3440 0.1(K)
N9REF
L3028 22
C3438 16V10
C3439 0.1(Z)
IC3184 NJM082BM-T1
C3441 0.1(K)
R3548 560
R3549 33K
R3550 *PAT/J3
C3442 0.1(Z)
C3443 0.01
R3551 33K
R3552 1000
C3444 0.1(Z)
C3445 0.1(Z)
IC3185
MC14053BF-R
Y1 Y0 Z1 Z Z0 EN VEE GND
VCC Y X X1 X0 A B C
R3553 68K
R3554 47K
VR3015 20K(ANG)
VR3016 20K(ANG)
CW
C3446 0.01
C3447 0.01
R3556 0
R3558 15K
V_PHASE(NTSC)
V_PHASE(PAL)
PAL_H
P5REF
VIDEO_PHASE
CK2
27MVCO
IC3099 MC74HC125AFR
R3319 470/J3
C3214 0.01/UBV
C3217 0.1/UFV
R3318 47K/J3
R3567 2200/J3
R3309 10K/J3
R3324 1M/J3
C3221 0.1/UFV
C3222 50V1/EVN
R3316 1000/J3
C3219 0.1/UFV
D3001 MA152K-TX
C3218 0.1/UFV
C3223 16V47/EVY
X3001 VSX0788
VCO5
VCC
IN
OUT
GND1
GND2
C3227 0.1/UFV
C3228 0.1/UFV
C3216 0.1/UFV
N5REF
ER2
WND2
VCC
IC3180 MC74HC574AFR
IC3181 MC74HC574AFR
IC3182 MC74HC574AFR
C3448 0.1(Z)
C3449 0.1(Z)
C3450 0.1(Z)
IC3103 TVHC240FTEL
R3313 22/J3
CLK27M1
R3321 1000/J3
C3215 0.1(Z)
C3224 0.1(Z)
IC3100 74F08SJ-R1
IC3101 SN74AS74ANSL
HST_N
IC3100 74F08
74F08SJ-R1
IC3101 SN74AS74ANSL
PRE
CLK
CLR
R3322 100/J3
R3320 100/J3
R3654 0
R3655 PAT
IC3102 TVHT244FTEL
R3323 1000/J3
R3311 22/J3
R3315 22/J3
R3310 22/J3
R3312 22/J3
CLK135M1
CLK135M2
CLK675M1
C3225 0.1(Z)
C3226 0.1(Z)
IC3102 TVHT244FTEL
IC3103 TVHC240FTEL
*PAT=PATTERN ONLY

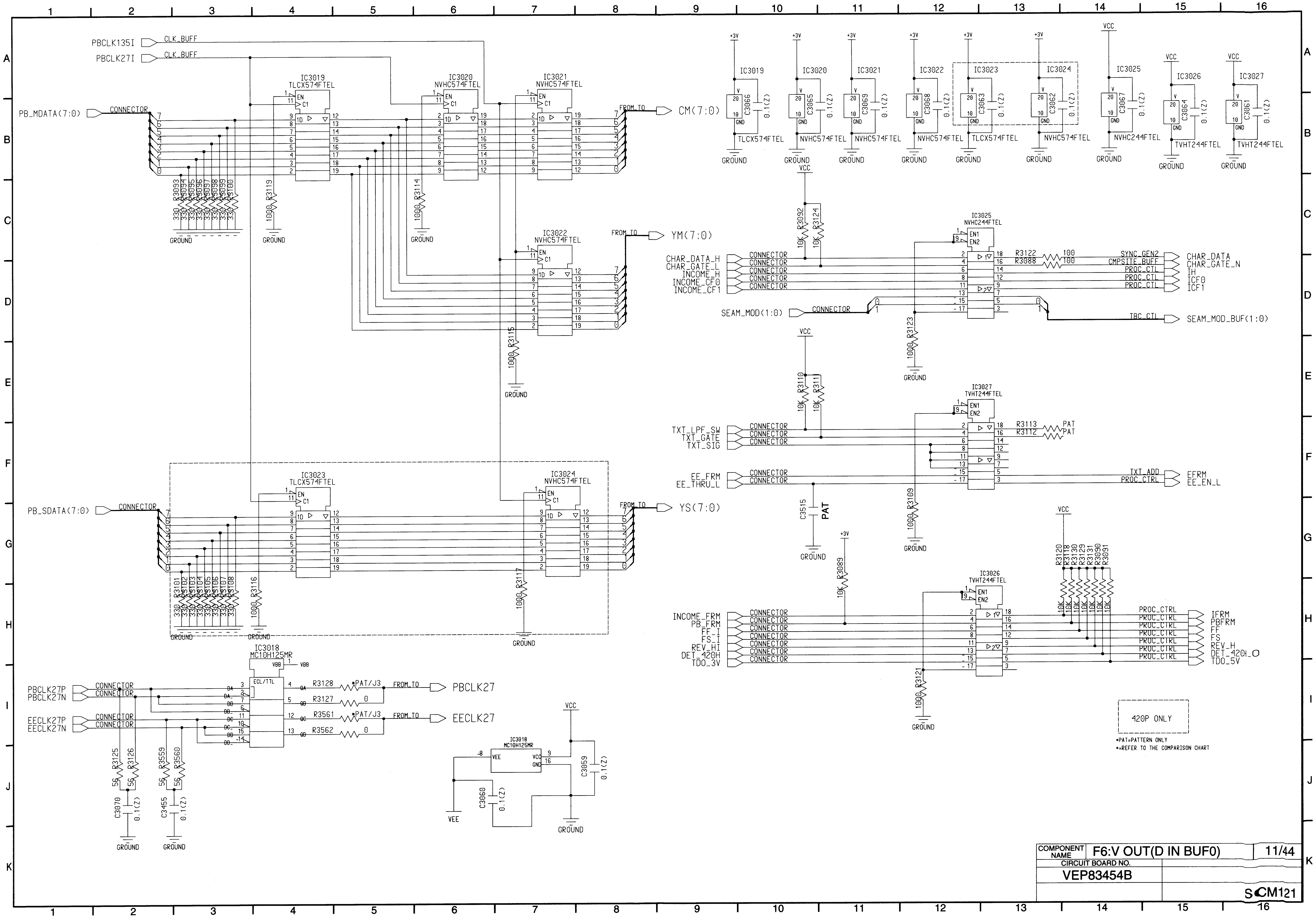
COMPONENT NAME	F6:V OUT(SYCN GEN HLOCKPLL)	09/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM119


CONNECTOR
P12V
IC3087
NJM78L09UAT2
IN
GND
OUT
3
1
2
REF_PLL
P9REF
C3186
25V10
C3190
0.1(Z)
C3175
16V10
C3176
0.1(Z)
GROUND
GROUND
CONNECTOR
P8V
IC3088
NJM78L05UAT2
REF_PLL
P5REF
C3192
16V10
C3191
0.1(Z)
C3184
16V10
C3178
0.1(Z)
GROUND
GROUND
CONNECTOR
N8V
IC3089
NJM79L05UAT2
REF_PLL
N5REF
C3185
16V10
C3181
0.1(Z)
C3189
16V47
C3182
0.1(Z)
GROUND
GROUND
CONNECTOR
N12V
IC3179
NJM79L09UAT2
REF_PLL
N9REF
C3431
16V10
C3432
0.1(Z)
C3433
16V47
C3434
0.1(Z)
GROUND
GROUND

*=REFER TO THE COMPARISON CHART

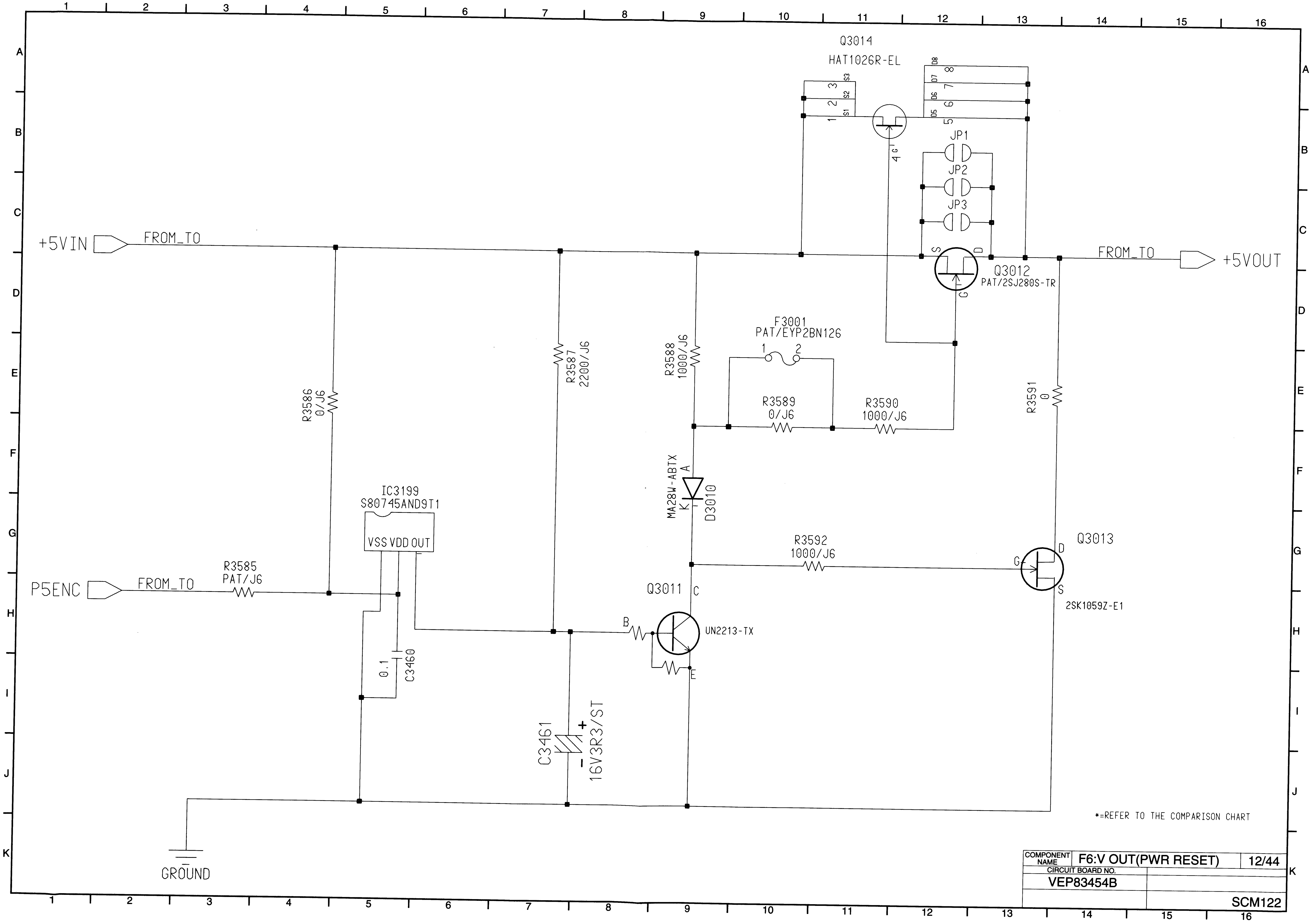
COMPONENT NAME F6:V OUT(REG 1) 10/44
CIRCUIT BOARD NO.
VEP83454B
SCM120

KR3W40(11/44)


PBCLK135I
CLK_BUFF
PBCLK27I
CLK_BUFF
PB_MDATA(7:0)
CONNECTOR
IC3019
TLCX574FTEL
IC3020
NVHC574FTEL
IC3021
NVHC574FTEL
FROM_TO
CM(7:0)
IC3022
NVHC574FTEL
FROM_TO
YM(7:0)
R3093
R3094
R3095
R3096
R3097
R3098
R3099
R3100
330
R3119
1000
R3114
1000
R3115
1000
GROUND
PB_SDATA(7:0)
CONNECTOR
IC3023
TLCX574FTEL
IC3024
NVHC574FTEL
FROM_TO
YS(7:0)
R3101
R3102
R3103
R3104
R3105
R3106
R3107
R3108
330
R3116
1000
R3117
1000
IC3018
MC10H125MR
VBB
ECL/TTL
PBCLK27P
PBCLK27N
EECLK27P
EECLK27N
CONNECTOR
R3128
*PAT/J3
R3127
0
R3561
*PAT/J3
R3562
0
FROM_TO
PBCLK27
FROM_TO
EECLK27
R3125
R3126
R3559
R3560
56
C3070
C3455
0.1(Z)
IC3018
MC10H125MR
VEE
VCC
GND
C3060
0.1(Z)
C3059
0.1(Z)
VCC
VEE
+3V
VCC
IC3019
IC3020
IC3021
IC3022
IC3023
IC3024
IC3025
IC3026
IC3027
C3066
C3065
C3069
C3068
C3063
C3062
C3067
C3064
C3061
0.1(Z)
TLCX574FTEL
NVHC574FTEL
NVHC574FTEL
NVHC574FTEL
TLCX574FTEL
NVHC574FTEL
NVHC244FTEL
TVHT244FTEL
TVHT244FTEL
R3092
R3124
10K
IC3025
NVHC244FTEL
EN1
EN2
CHAR_DATA_H
CHAR_GATE_L
INCOME_H
INCOME_CF0
INCOME_CF1
CONNECTOR
R3122
100
R3088
100
SYNC_GEN2
CMPSITE_BUFF
PROC_CTL
PROC_CTL
PROC_CTL
CHAR_DATA
CHAR_GATE_N
IH
ICF0
ICF1
SEAM_MOD(1:0)
CONNECTOR
TBC_CTL
SEAM_MOD_BUF(1:0)
R3123
1000
R3110
R3111
10K
IC3027
TVHT244FTEL
TXT_LPF_SW
TXT_GATE
TXT_SIG
CONNECTOR
R3113
R3112
PAT
PAT
EE_FRM
EE_THRU_L
TXT_ADD
PROC_CTRL
EFRM
EE_EN_L
C3515
PAT
R3109
1000
+3V
R3089
10K
R3120
R3118
R3130
R3129
R3131
R3090
R3091
10K
IC3026
TVHT244FTEL
INCOME_FRM
PB_FRM
FF_I
FS_I
REV_HI
DET_420H
TDO_3V
CONNECTOR
PROC_CTRL
IFRM
PBFRM
FF
FS
REV_H
DET_420H_O
TDO_5V
R3121
1000
420P ONLY
*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT(D IN BUF0)	11/44
CIRCUIT BOARD NO.		
VEP83454B		

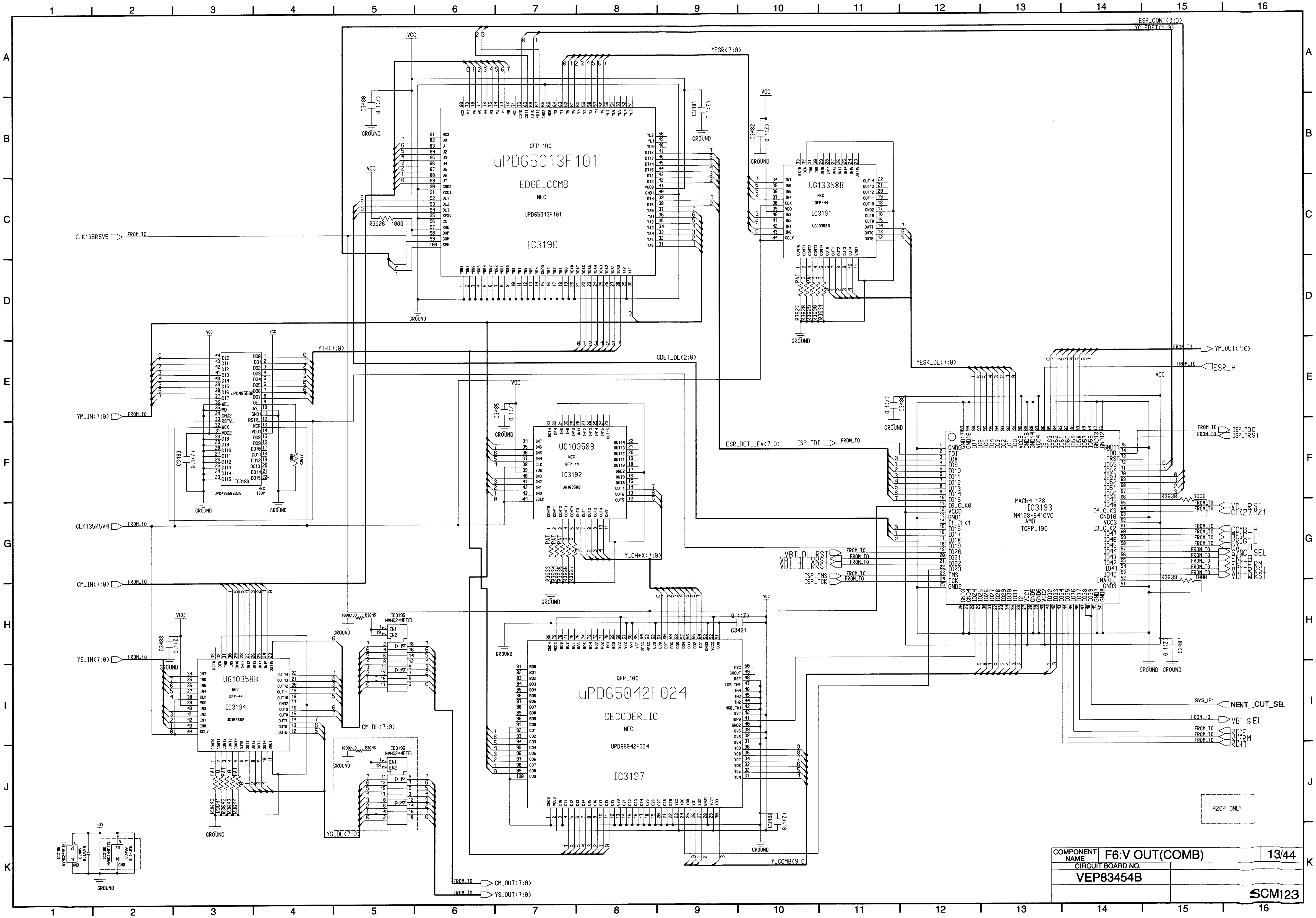
SCM121


+5VIN
FROM_TO
FROM_TO
+5VOUT
Q3014
HAT1026R-EL
S1
S2
S3
D5
D6
D7
D8
1
2
3
4 G
5
6
7
8
JP1
JP2
JP3
S
D
G
Q3012
PAT/2SJ280S-TR
F3001
PAT/EYP2BN126
1
2
R3588
1000/J6
R3587
2200/J6
R3586
0/J6
R3589
0/J6
R3590
1000/J6
R3591
0
MA28W-ABTX
A
K
D3010
IC3199
S80745AND9T1
VSS VDD OUT
P5ENC
FROM_TO
R3585
PAT/J6
R3592
1000/J6
Q3013
G
D
S
2SK1059Z-E1
Q3011
B
C
E
UN2213-TX
0.1
C3460
C3461
+
-
16V3R3/ST
GROUND

*=REFER TO THE COMPARISON CHART

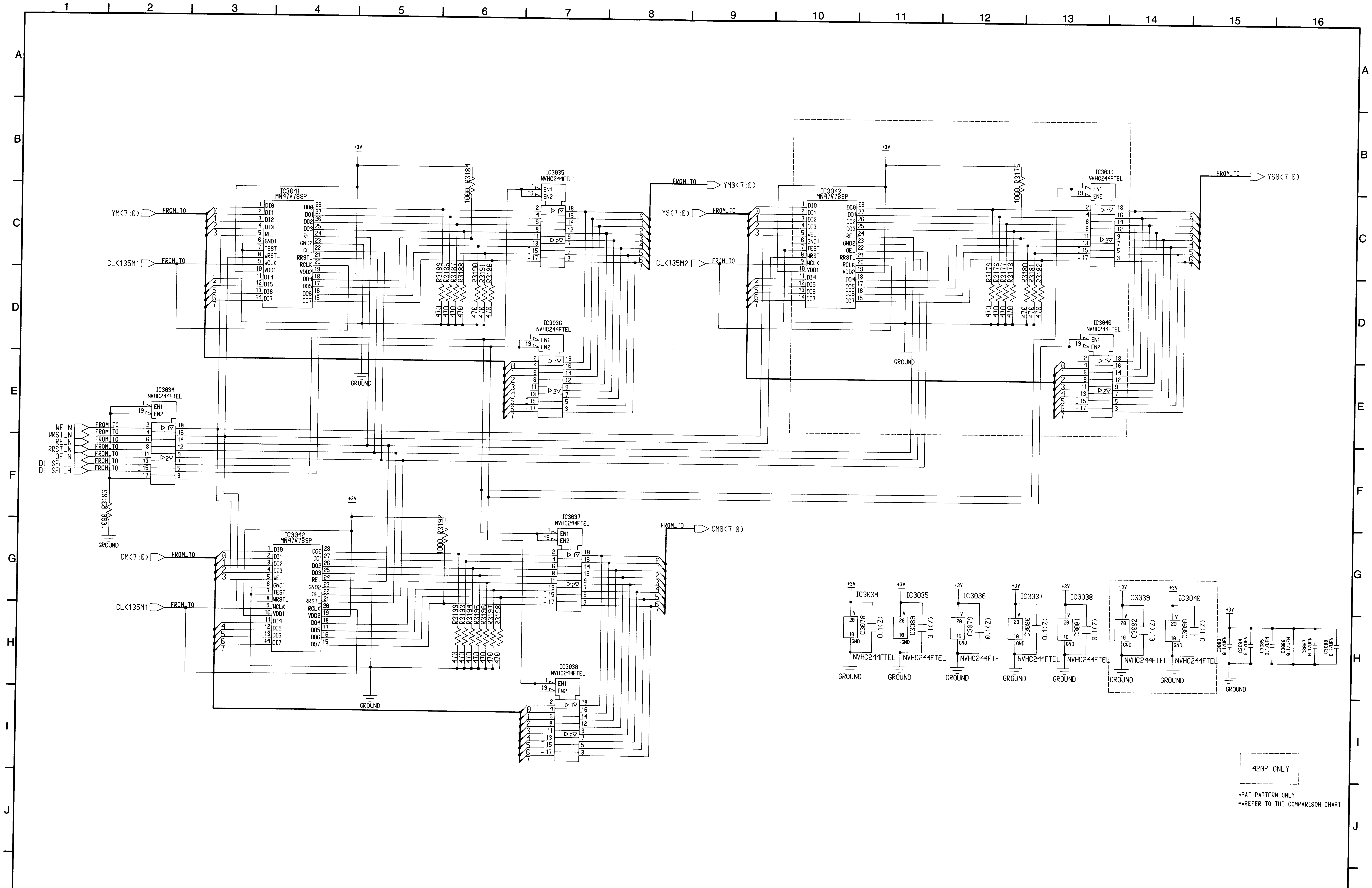
COMPONENT NAME	F6:V OUT(PWR RESET)	12/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM122

KR3W40(12/44)


uPD65013F101
EDGE_COMB
NEC
UPD65013F101
IC3190
QFP_100
UG10358B
IC3191
QFP-44
UG10358B
IC3192
UG10358B
IC3194
uPD485506G25
IC3189
MACH4_128
IC3193
M4128-6410VC
AMD
TQFP_100
uPD65042F024
DECODER_IC
NEC
UPD65042F024
IC3197
IC3195
NVHC244FTEL
IC3196
NVHC244FTEL
ESR_CONT(3:0)
YC_EDET(1:0)
YESR(7:0)
YESR_DL(7:0)
Y1H(7:0)
CDET_DL(2:0)
ESR_DET_LEV(7:0)
ISP_TDI
CLK135R5V5
CLK135R5V4
YM_IN(7:0)
CM_IN(7:0)
YS_IN(7:0)
CM_DL(7:0)
YS_DL(7:0)
Y_OH+X(7:0)
Y_COMB(9:0)
CM_OUT(7:0)
YS_OUT(7:0)
YM_OUT(7:0)
ESR_H
ISP_TDO
ISP_TRST
VDL_RST
CLK27M21
COMB_H
VBI_DL_RST
VBI_DL_RRST
VBI_DL_WRST
ISP_TMS
ISP_TCK
NENT_CUT_SEL
VBI_SEL
FROM_TO
SYS_IF1
VCC
GROUND
C3480
C3481
C3482
C3483
C3485
C3486
C3487
C3488
C3491
C3492
R3626
R3632
R3638
R3639
R3645
R3646
0.1(Z)
1000
420P ONLY
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

COMPONENT NAME	F6:V OUT(COMB)	13/44
CIRCUIT BOARD NO.		
VEP83454B		

SCM123

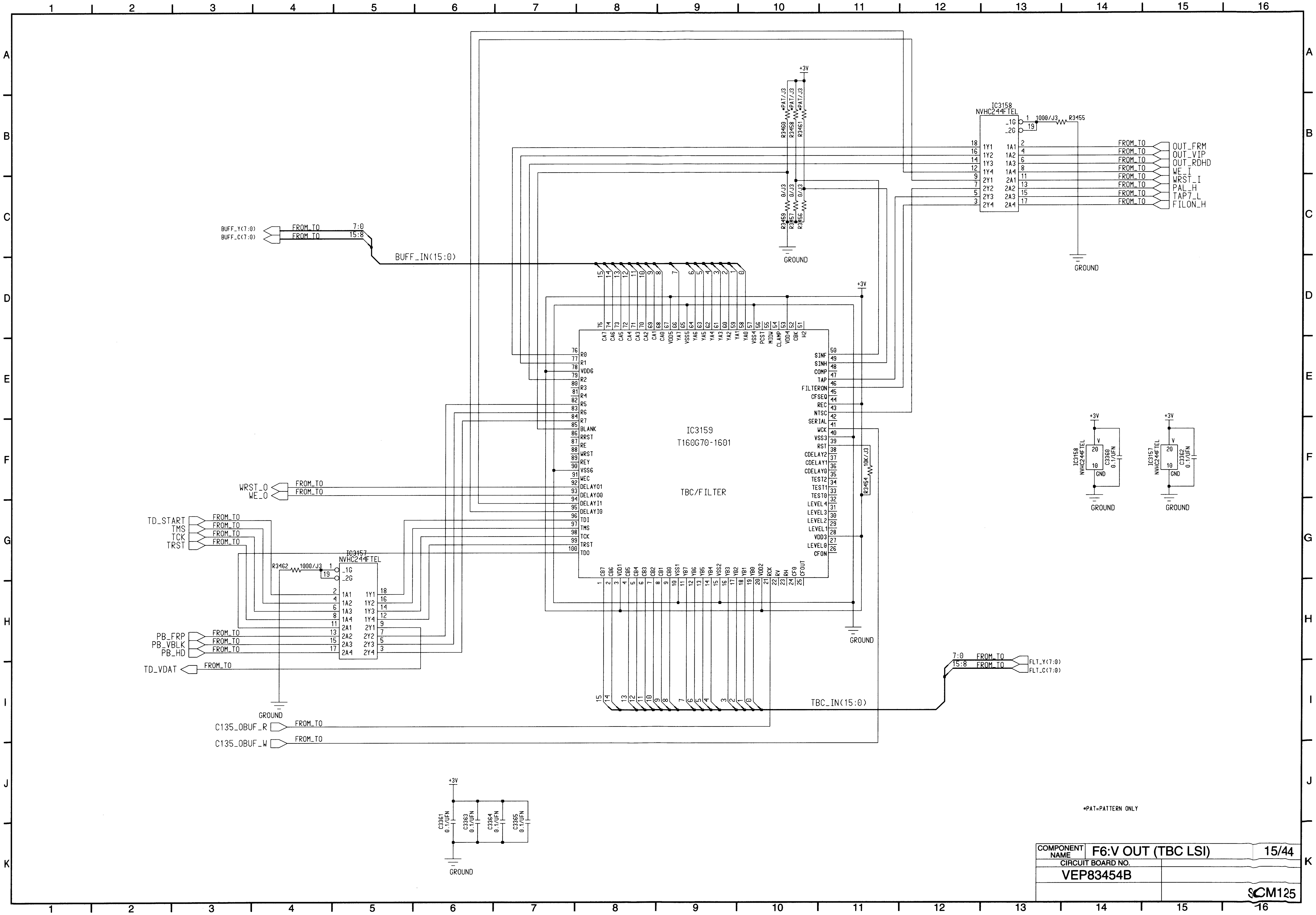

IC3041
MN47V78SP
IC3043
MN47V78SP
IC3042
MN47V78SP
IC3034
NVHC244FTEL
IC3035
NVHC244FTEL
IC3036
NVHC244FTEL
IC3037
NVHC244FTEL
IC3038
NVHC244FTEL
IC3039
NVHC244FTEL
IC3040
NVHC244FTEL
YM(7:0)
YS(7:0)
CM(7:0)
CLK135M1
CLK135M2
CLK135M1
YM0(7:0)
YS0(7:0)
CM0(7:0)
FROM_TO
WE_N
WRST_N
RE_N
RRST_N
OE_N
DL_SEL_L
DL_SEL_H
+3V
GROUND
1000 R3184
1000 R3175
1000 R3192
1000 R3183
R3189 R3185 R3187 R3188 R3190 R3191 R3186 470
R3179 R3176 R3177 R3178 R3180 R3181 R3182 470
R3193 R3193 R3194 R3195 R3196 R3197 R3198 470
DI0 DI1 DI2 DI3 WE_ GND1 TEST WRST_ WCLK VDD1 DI4 DI5 DI6 DI7
DO0 DO1 DO2 DO3 RE_ GND2 OE_ RRST RCLK VDD2 DO4 DO5 DO6 DO7
EN1 EN2
C3078 0.1(Z)
C3089 0.1(Z)
C3079 0.1(Z)
C3080 0.1(Z)
C3081 0.1(Z)
C3082 0.1(Z)
C3090 0.1(Z)
C3083 0.1/UFN
C3084 0.1/UFN
C3085 0.1/UFN
C3086 0.1/UFN
C3087 0.1/UFN
C3088 0.1/UFN
420P ONLY

*PAT=PATTERN ONLY

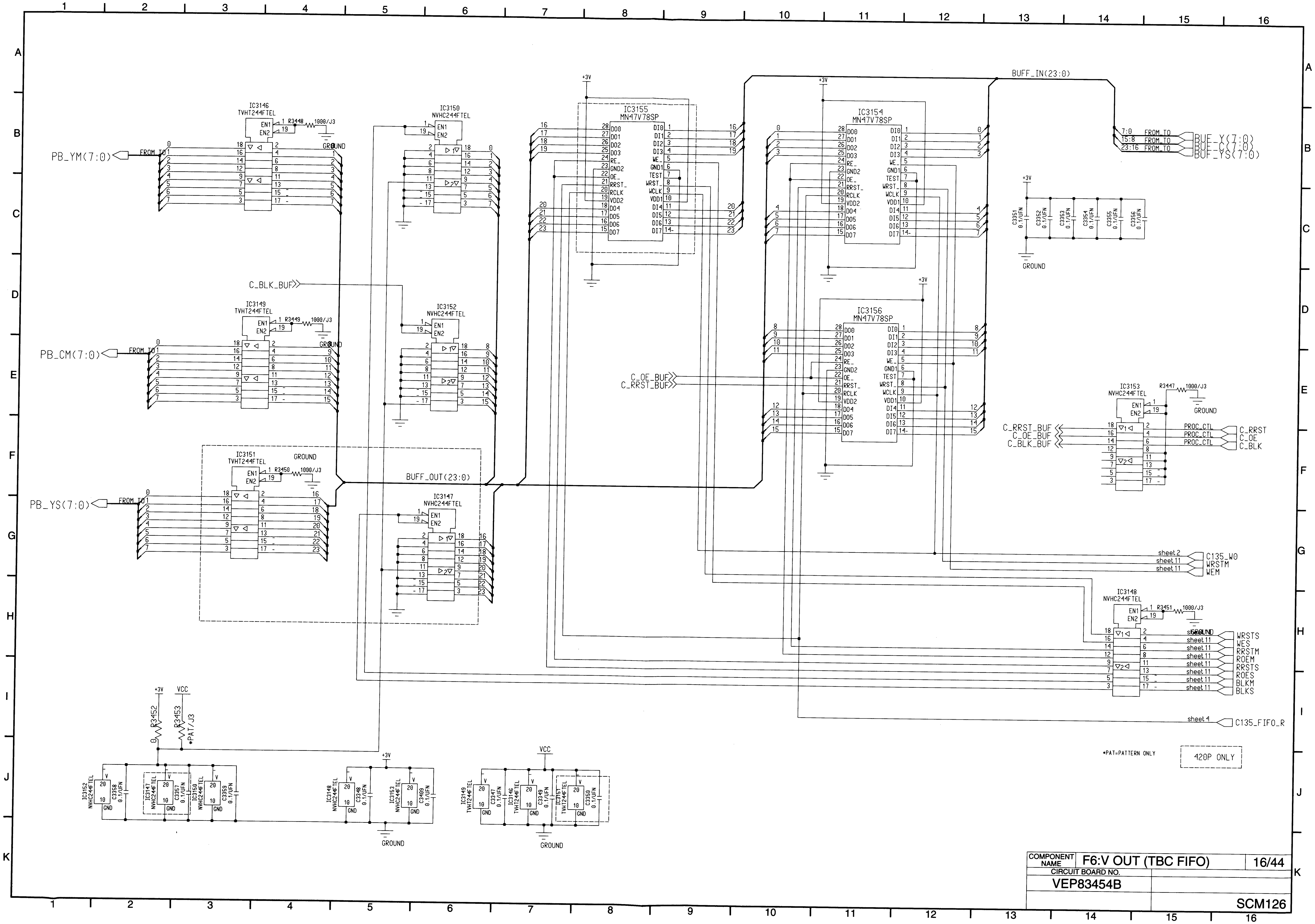
*=REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT(DLY FIFO)	14/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM124

KR3W40(14/44)

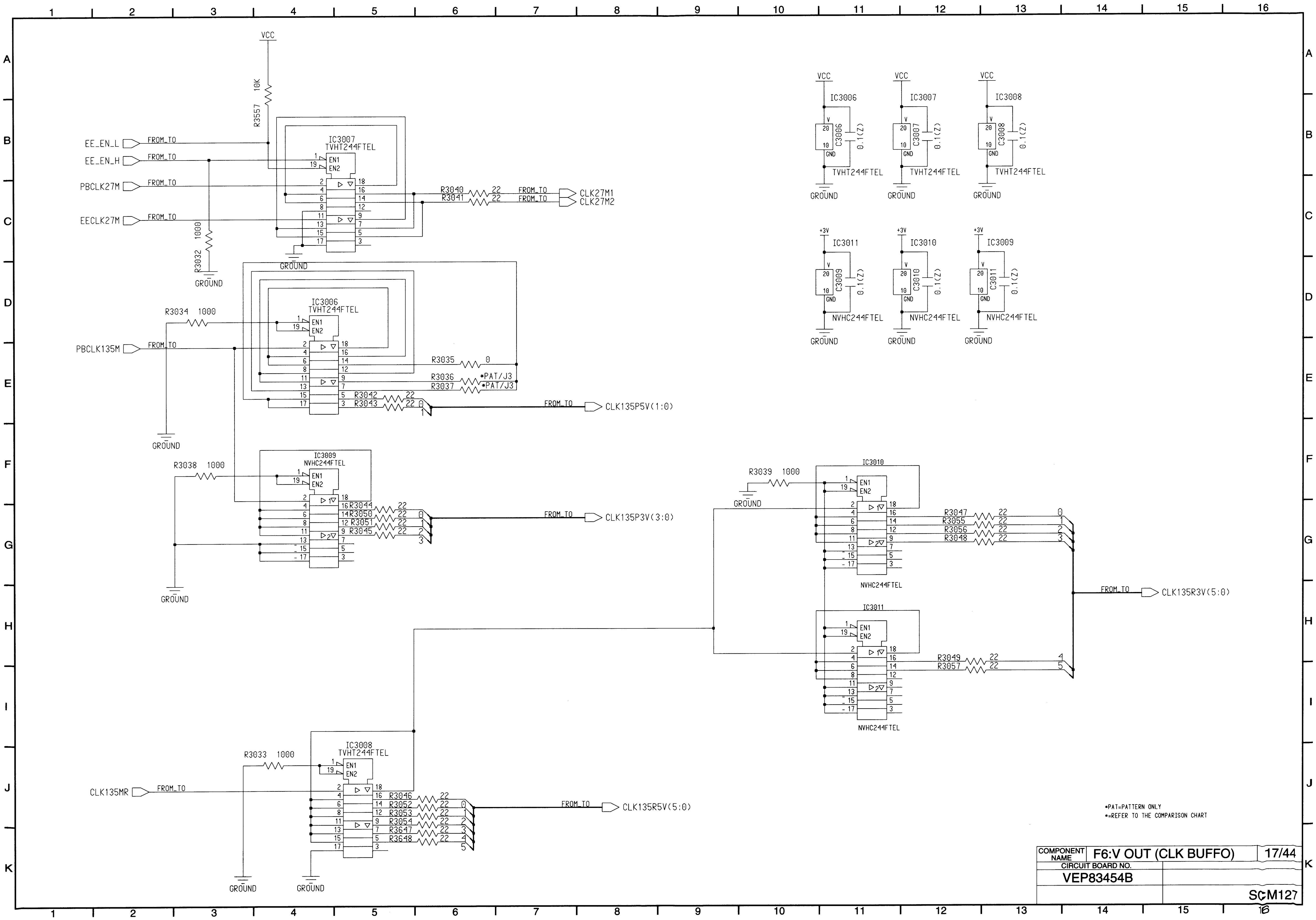

BUFF_Y(7:0)
BUFF_C(7:0)
FROM_TO
7:0
15:8
BUFF_IN(15:0)
+3V
*PAT/J3
R3460
R3458
R3461
0/J3
R3459
R3457
R3456
GROUND
IC3158
NVHC244FTEL
_1G
_2G
1000/J3
R3455
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
OUT_FRM
OUT_VIP
OUT_RDHD
WE_I
WRST_I
PAL_H
TAP7_L
FILON_H
IC3159
T160G70-1601
TBC/FILTER
CA7 CA6 CA5 CA4 CA3 CA2 CA1 CA0 VDD5 YA7 VSS5 YA6 YA5 YA4 YA3 YA2 YA1 YA0 VSS4 PCST MIDW CLAMP VDD4 CBK H2
R0 R1 VDD6 R2 R3 R4 R5 R6 R7 BLANK RRST RE WRST REY VSS6 WEC DELAYO1 DELAYO0 DELAYI1 DELAYI0 TDI TMS TCK TRST TDO
SINF SINH COMP TAP FILTERON CFSEQ REC NTSC SERIAL WCK VSS3 RST CDELAY2 CDELAY1 CDELAY0 TEST2 TEST1 TEST0 LEVEL4 LEVEL3 LEVEL2 LEVEL1 VDD3 LEVEL0 CFON
CB7 CB6 VDD1 CB5 CB4 CB3 CB2 CB1 CB0 VSS1 YB7 YB6 YB5 YB4 VSS2 YB3 YB2 YB1 YB0 VDD2 RCK RV RH CF0 CFOUT
10K/J3
R3454
WRST_O
WE_O
TD_START
TMS
TCK
TRST
IC3157
NVHC244FTEL
R3462
1000/J3
PB_FRP
PB_VBLK
PB_HD
TD_VDAT
C135_OBUF_R
C135_OBUF_W
TBC_IN(15:0)
FLT_Y(7:0)
FLT_C(7:0)
V
GND
C3360
C3362
0.1/UFN
C3361
C3363
C3364
C3365
*PAT=PATTERN ONLY

COMPONENT NAME	F6:V OUT (TBC LSI)	15/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM125


PB_YM(7:0)
PB_CM(7:0)
PB_YS(7:0)
FROM_TO
IC3146 TVHT244FTEL
IC3149 TVHT244FTEL
IC3151 TVHT244FTEL
IC3150 NVHC244FTEL
IC3152 NVHC244FTEL
IC3147 NVHC244FTEL
IC3153 NVHC244FTEL
IC3148 NVHC244FTEL
IC3155 MN47V78SP
IC3154 MN47V78SP
IC3156 MN47V78SP
R3448 1000/J3
R3449 1000/J3
R3450 1000/J3
R3447 1000/J3
R3451 1000/J3
GROUND
C_BLK_BUF
BUFF_OUT(23:0)
BUFF_IN(23:0)
BUF_Y(7:0)
BUF_C(7:0)
BUF_YS(7:0)
7:0 FROM_TO
15:8 FROM_TO
23:16 FROM_TO
+3V
C3351 0.1/UFN
C3352 0.1/UFN
C3353 0.1/UFN
C3354 0.1/UFN
C3355 0.1/UFN
C3356 0.1/UFN
C_OE_BUF
C_RRST_BUF
C_RRST_BUF
C_OE_BUF
C_BLK_BUF
PROC_CTL
C_RRST
C_OE
C_BLK
sheet 2 C135_W0
sheet 11 WRSTM
sheet 11 WEM
WRSTS
WES
RRSTM
ROEM
RRSTS
ROES
BLKM
BLKS
sheet 4 C135_FIFO_R
VCC
R3452 0
R3453 *PAT/J3
IC3152 NVHC244FTEL C3358 0.1/UFN
IC3147 NVHC244FTEL C3357 0.1/UFN
IC3150 NVHC244FTEL C3359 0.1/UFN
IC3148 NVHC244FTEL C3348 0.1/UFN
IC3153 NVHC244FTEL C3409 0.1/UFN
IC3149 TVHT244FTEL C3347 0.1/UFN
IC3146 TVHT244FTEL C3349 0.1/UFN
IC3151 TVHT244FTEL C3350 0.1/UFN
*PAT=PATTERN ONLY
420P ONLY

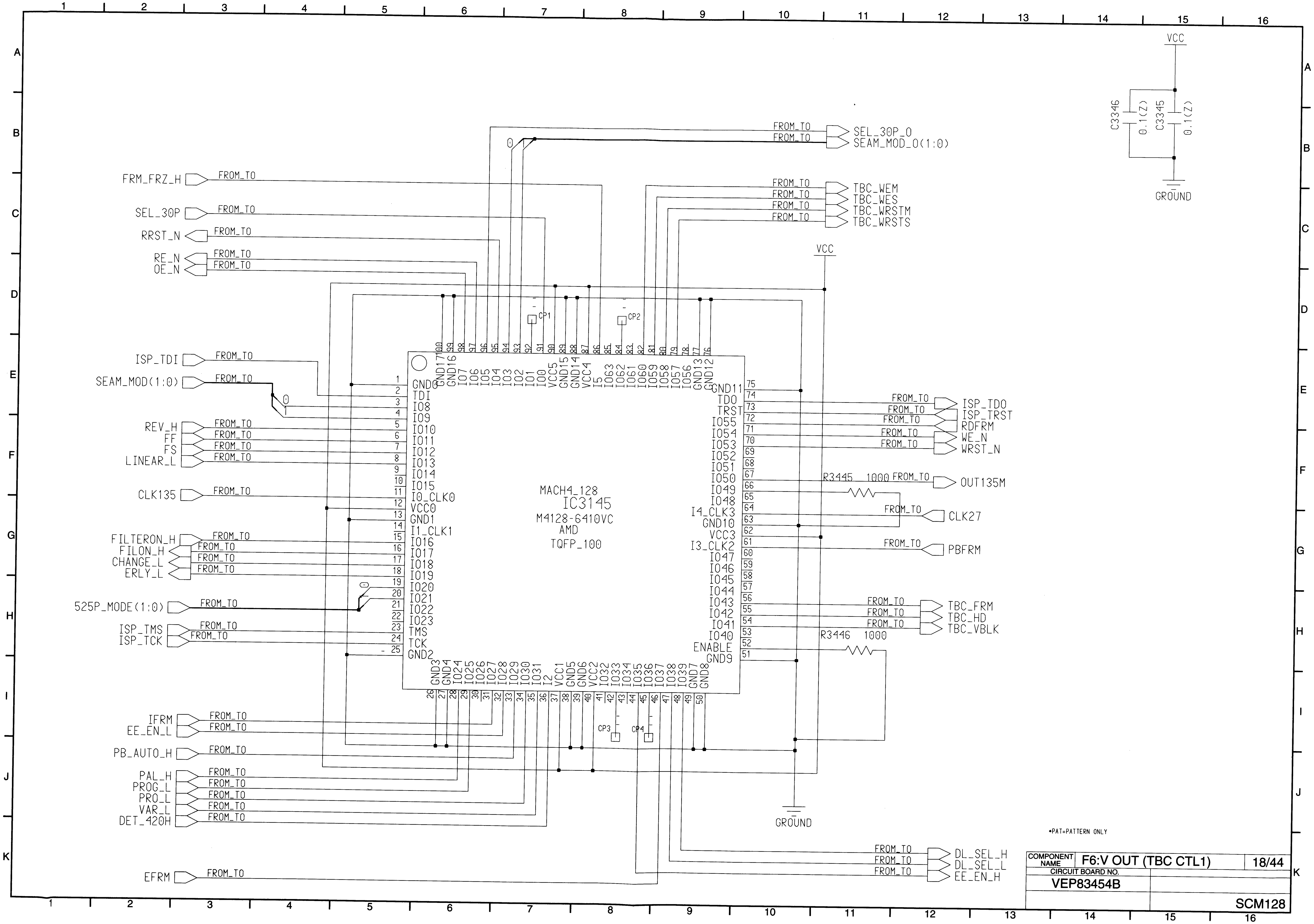
COMPONENT NAME	F6:V OUT (TBC FIFO)	16/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM126

KR3W40(16/44)


VCC
R3557
10K
EE_EN_L
EE_EN_H
PBCLK27M
EECLK27M
FROM_TO
IC3007
TVHT244FTEL
EN1
EN2
R3040
R3041
22
CLK27M1
CLK27M2
R3032
1000
GROUND
R3034
1000
IC3006
TVHT244FTEL
PBCLK135M
R3035
0
R3036
R3037
*PAT/J3
R3042
R3043
22
CLK135P5V(1:0)
R3038
1000
IC3009
NVHC244FTEL
R3044
R3050
R3051
R3045
CLK135P3V(3:0)
R3039
1000
IC3010
R3047
R3055
R3056
R3048
NVHC244FTEL
CLK135R3V(5:0)
IC3011
R3049
R3057
NVHC244FTEL
R3033
1000
IC3008
TVHT244FTEL
CLK135MR
R3046
R3052
R3053
R3054
R3647
R3648
CLK135R5V(5:0)
IC3006
IC3007
IC3008
C3006
C3007
C3008
0.1(Z)
TVHT244FTEL
+3V
IC3011
IC3010
IC3009
C3009
C3010
C3011
NVHC244FTEL
GROUND

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT (CLK BUFFO)	17/44
CIRCUIT BOARD NO.		
VEP83454B		
	SCM127	

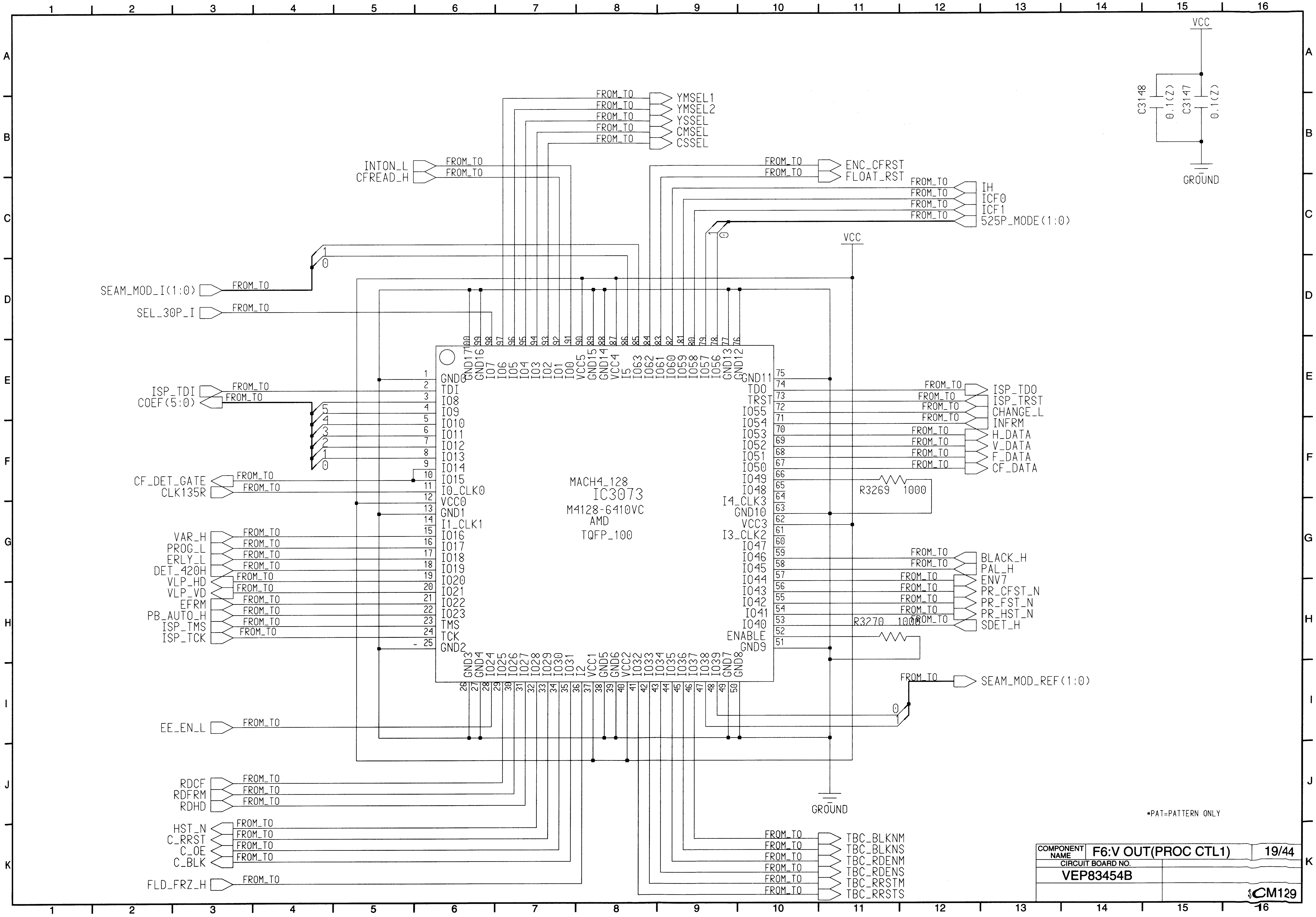


VCC
C3346
0.1(Z)
C3345
0.1(Z)
GROUND
FROM_TO
SEL_30P_0
SEAM_MOD_0(1:0)
FRM_FRZ_H
SEL_30P
RRST_N
RE_N
OE_N
TBC_WEM
TBC_WES
TBC_WRSTM
TBC_WRSTS
CP1
CP2
CP3
CP4
ISP_TDI
SEAM_MOD(1:0)
REV_H
FF
FS
LINEAR_L
CLK135
FILTERON_H
FILON_H
CHANGE_L
ERLY_L
525P_MODE(1:0)
ISP_TMS
ISP_TCK
IFRM
EE_EN_L
PB_AUTO_H
PAL_H
PROG_L
PRO_L
VAR_L
DET_420H
EFRM
MACH4_128
IC3145
M4128-6410VC
AMD
TQFP_100
GND0
TDI
IO8
IO9
IO10
IO11
IO12
IO13
IO14
IO15
I0_CLK0
VCC0
GND1
I1_CLK1
IO16
IO17
IO18
IO19
IO20
IO21
IO22
IO23
TMS
TCK
GND2
GND3
GND4
IO24
IO25
IO26
IO27
IO28
IO29
IO30
IO31
I2
VCC1
GND5
GND6
VCC2
IO32
IO33
IO34
IO35
IO36
IO37
IO38
IO39
GND7
GND8
GND9
ENABLE
IO40
IO41
IO42
IO43
IO44
IO45
IO46
IO47
I3_CLK2
VCC3
GND10
I4_CLK3
IO48
IO49
IO50
IO51
IO52
IO53
IO54
IO55
TRST
TDO
GND11
GND12
GND13
IO56
IO57
IO58
IO59
IO60
IO61
IO62
IO63
I5
VCC4
GND14
GND15
VCC5
IO0
IO1
IO2
IO3
IO4
IO5
IO6
IO7
GND16
GND17
ISP_TDO
ISP_TRST
RDFRM
WE_N
WRST_N
R3445
1000
OUT135M
CLK27
PBFRM
TBC_FRM
TBC_HD
TBC_VBLK
R3446
1000
DL_SEL_H
DL_SEL_L
EE_EN_H

*PAT=PATTERN ONLY

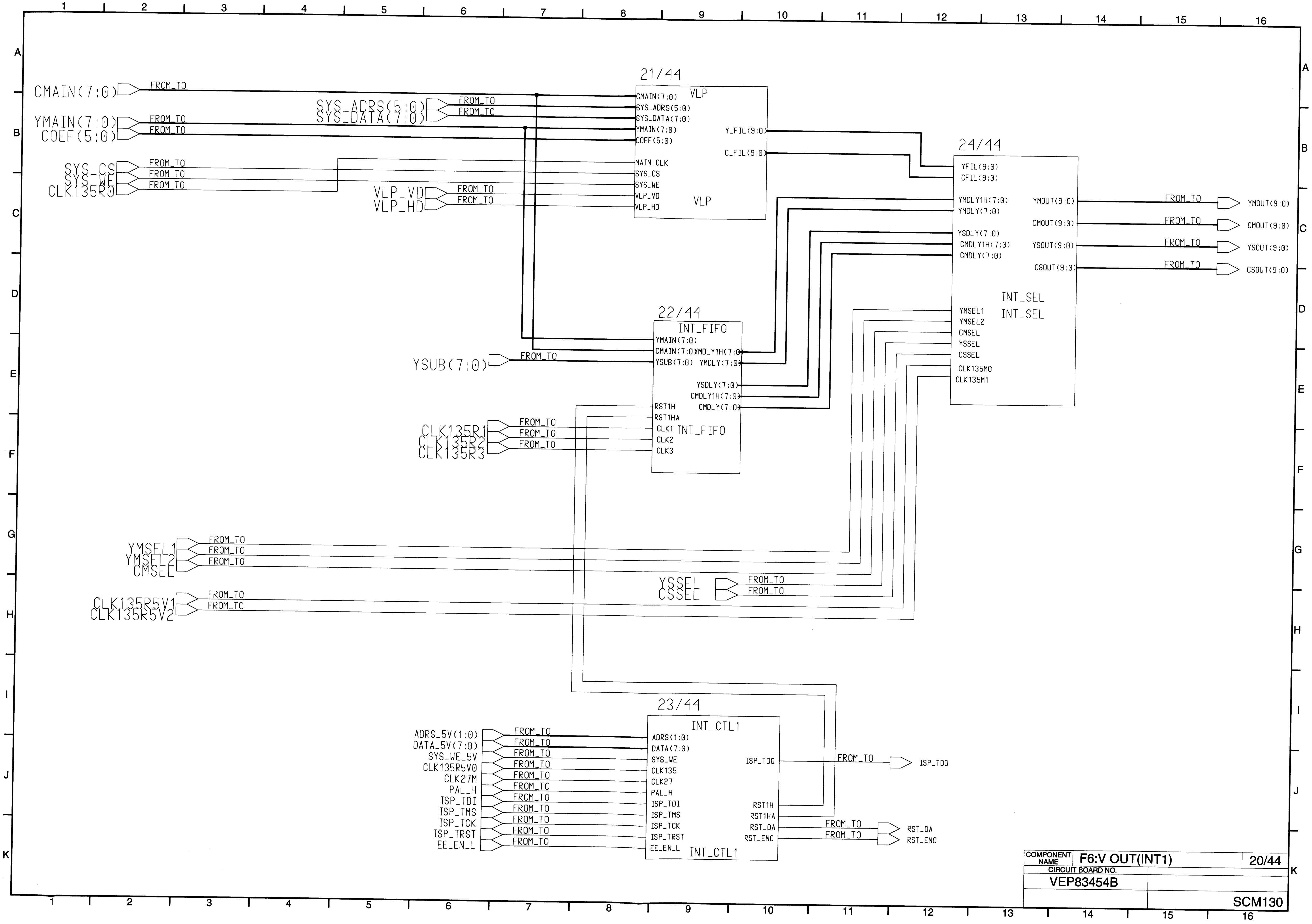
COMPONENT NAME	F6:V OUT (TBC CTL1)	18/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM128

KR3W40(18/44)


YMSEL1
YMSEL2
YSSEL
CMSEL
CSSEL
INTON_L
CFREAD_H
ENC_CFRST
FLOAT_RST
IH
ICF0
ICF1
525P_MODE(1:0)
VCC
SEAM_MOD_I(1:0)
SEL_30P_I
ISP_TDI
COEF(5:0)
CF_DET_GATE
CLK135R
VAR_H
PROG_L
ERLY_L
DET_420H
VLP_HD
VLP_VD
EFRM
PB_AUTO_H
ISP_TMS
ISP_TCK
EE_EN_L
RDCF
RDFRM
RDHD
HST_N
C_RRST
C_OE
C_BLK
FLD_FRZ_H
FROM_TO
MACH4_128
IC3073
M4128-6410VC
AMD
TQFP_100
ISP_TDO
ISP_TRST
CHANGE_L
INFRM
H_DATA
V_DATA
F_DATA
CF_DATA
R3269 1000
BLACK_H
PAL_H
ENV7
PR_CFST_N
PR_FST_N
PR_HST_N
SDET_H
R3270 1000
SEAM_MOD_REF(1:0)
GROUND
TBC_BLKNM
TBC_BLKNS
TBC_RDENM
TBC_RDENS
TBC_RRSTM
TBC_RRSTS
C3148
C3147
0.1(Z)
*PAT=PATTERN ONLY
GND0
TDI
TDO
TRST
TMS
TCK
ENABLE

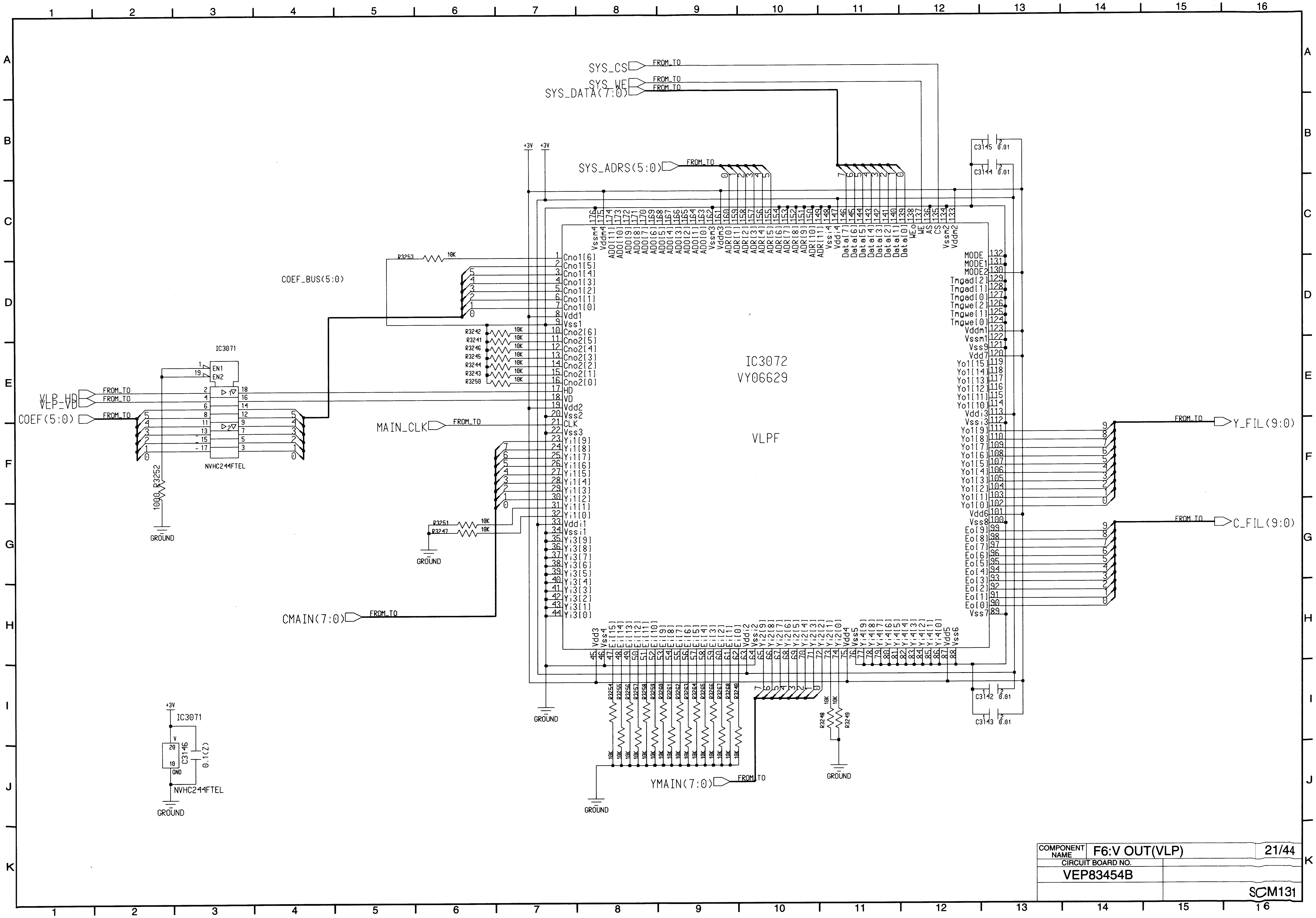
COMPONENT NAME	F6:V OUT(PROC CTL1)	19/44
CIRCUIT BOARD NO.		
VEP83454B		CM129

KR3W40(19/44)


21/44
VLP
CMAIN(7:0)
SYS_ADRS(5:0)
SYS_DATA(7:0)
YMAIN(7:0)
COEF(5:0)
MAIN_CLK
SYS_CS
SYS_WE
VLP_VD
VLP_HD
Y_FIL(9:0)
C_FIL(9:0)
SYS_CS
SYS_WE
CLK135R0
VLP_VD
VLP_HD
FROM_TO
24/44
INT_SEL
YFIL(9:0)
CFIL(9:0)
YMDLY1H(7:0)
YMDLY(7:0)
YSDLY(7:0)
CMDLY1H(7:0)
CMDLY(7:0)
YMOUT(9:0)
CMOUT(9:0)
YSOUT(9:0)
CSOUT(9:0)
YMSEL1
YMSEL2
CMSEL
YSSEL
CSSEL
CLK135M0
CLK135M1
22/44
INT_FIFO
YMAIN(7:0)
CMAIN(7:0)
YSUB(7:0)
YMDLY1H(7:0)
YMDLY(7:0)
YSDLY(7:0)
CMDLY1H(7:0)
CMDLY(7:0)
RST1H
RST1HA
CLK1
CLK2
CLK3
CLK135R1
CLK135R2
CLK135R3
YMSEL1
YMSEL2
CMSEL
YSSEL
CSSEL
CLK135R5V1
CLK135R5V2
23/44
INT_CTL1
ADRS_5V(1:0)
DATA_5V(7:0)
SYS_WE_5V
CLK135R5V0
CLK27M
PAL_H
ISP_TDI
ISP_TMS
ISP_TCK
ISP_TRST
EE_EN_L
ADRS(1:0)
DATA(7:0)
SYS_WE
CLK135
CLK27
PAL_H
ISP_TDI
ISP_TMS
ISP_TCK
ISP_TRST
EE_EN_L
ISP_TDO
RST1H
RST1HA
RST_DA
RST_ENC
ISP_TDO
RST_DA
RST_ENC

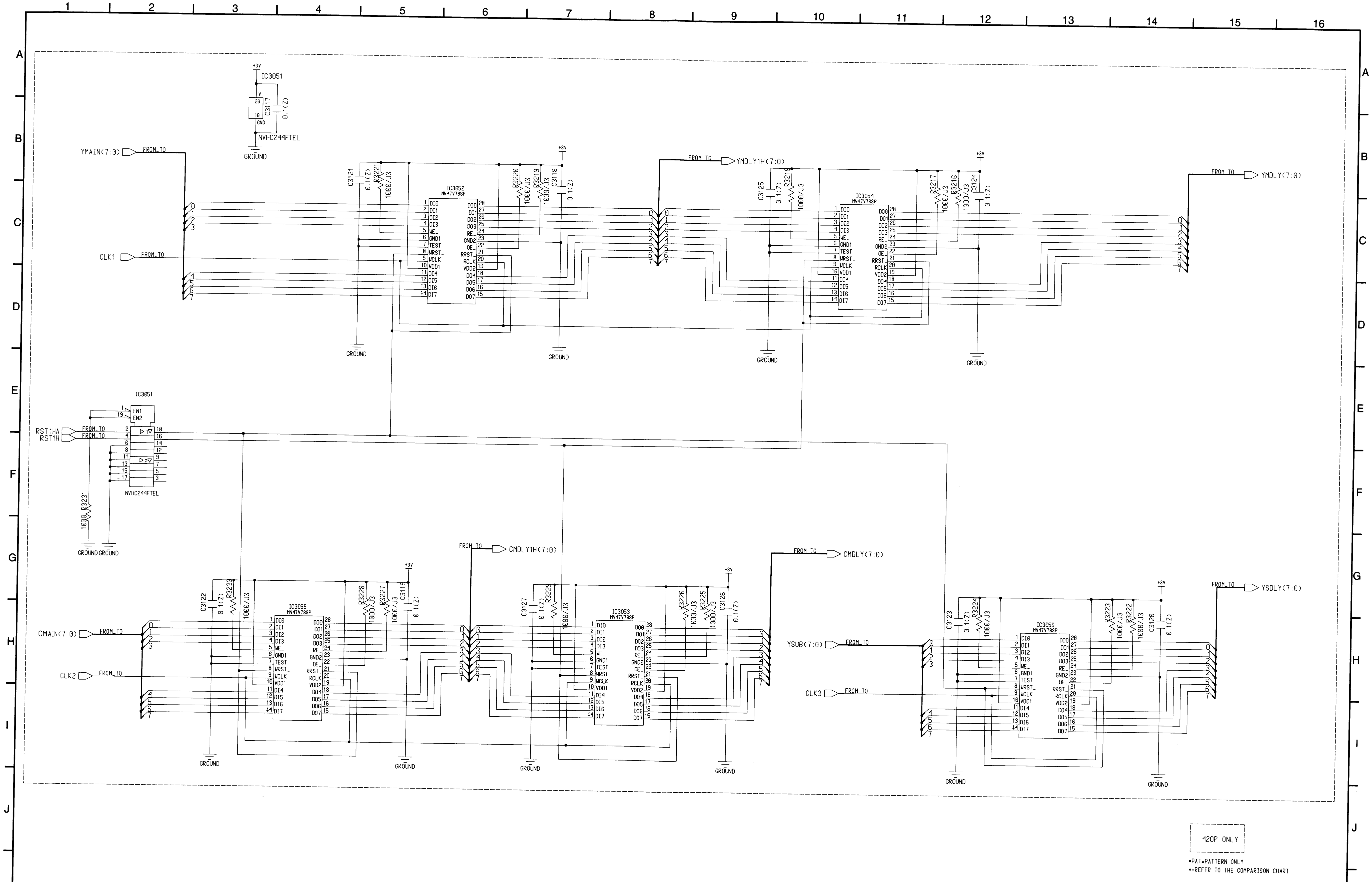
COMPONENT NAME	F6:V OUT(INT1)	20/44
CIRCUIT BOARD NO.		
VEP83454B		SCM130

KR3W40(20/44)


SYS_CS
SYS_WE
SYS_DATA(7:0)
SYS_ADRS(5:0)
FROM_TO
+3V
C3145 0.01
C3144 0.01
C3142 0.01
C3143 0.01
R3253 10K
COEF_BUS(5:0)
IC3071
EN1
EN2
VLP_HD
VLP_VD
COEF(5:0)
NVHC244FTEL
1000 R3252
GROUND
R3242 R3241 R3246 R3245 R3244 R3243 R3250 10K
MAIN_CLK
R3251 10K
R3247 10K
CMAIN(7:0)
IC3072
VY06629
VLPF
Y_FIL(9:0)
C_FIL(9:0)
R3254 R3255 R3256 R3257 R3258 R3259 R3260 R3261 R3262 R3263 R3264 R3265 R3266 R3267 R3268 R3240 10K
R3248 10K
R3249 10K
YMAIN(7:0)
C3146 0.1(Z)
NVHC244FTEL
Cno1[6] Cno1[5] Cno1[4] Cno1[3] Cno1[2] Cno1[1] Cno1[0] Vdd1 Vss1
Cno2[6] Cno2[5] Cno2[4] Cno2[3] Cno2[2] Cno2[1] Cno2[0] HD VD Vdd2 Vss2 CLK Vss3
Yi1[9]–Yi1[0] Vddi1 Vssi1 Yi3[9]–Yi3[0]
Vdd3 Vss4 Ei[15]–Ei[0] Vddi2 Vssi2 Yi2[9]–Yi2[0] Vdd4 Vss5 Yi4[9]–Yi4[0] Vdd5 Vss6
MODE MODE1 MODE2 Tmgad[2] Tmgad[1] Tmgad[0] Tmgwe[2] Tmgwe[1] Tmgwe[0] Vddm1 Vssm1 Vss9 Vdd7
Yo1[15]–Yo1[10] Vddi3 Vssi3 Yo1[9]–Yo1[0] Vdd6 Vss8 Eo[9]–Eo[0] Vss7
Vssm4 Vddm4 ADO[11]–ADO[0] Vssm3 Vddm3 ADR[0]–ADR[11] Vssi4 Vddi4 Data[7]–Data[0] WEo WE AS CS Vssm2 Vddm2

KR3W40(21/44)

COMPONENT NAME	F6:V OUT(VLP)	21/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM131

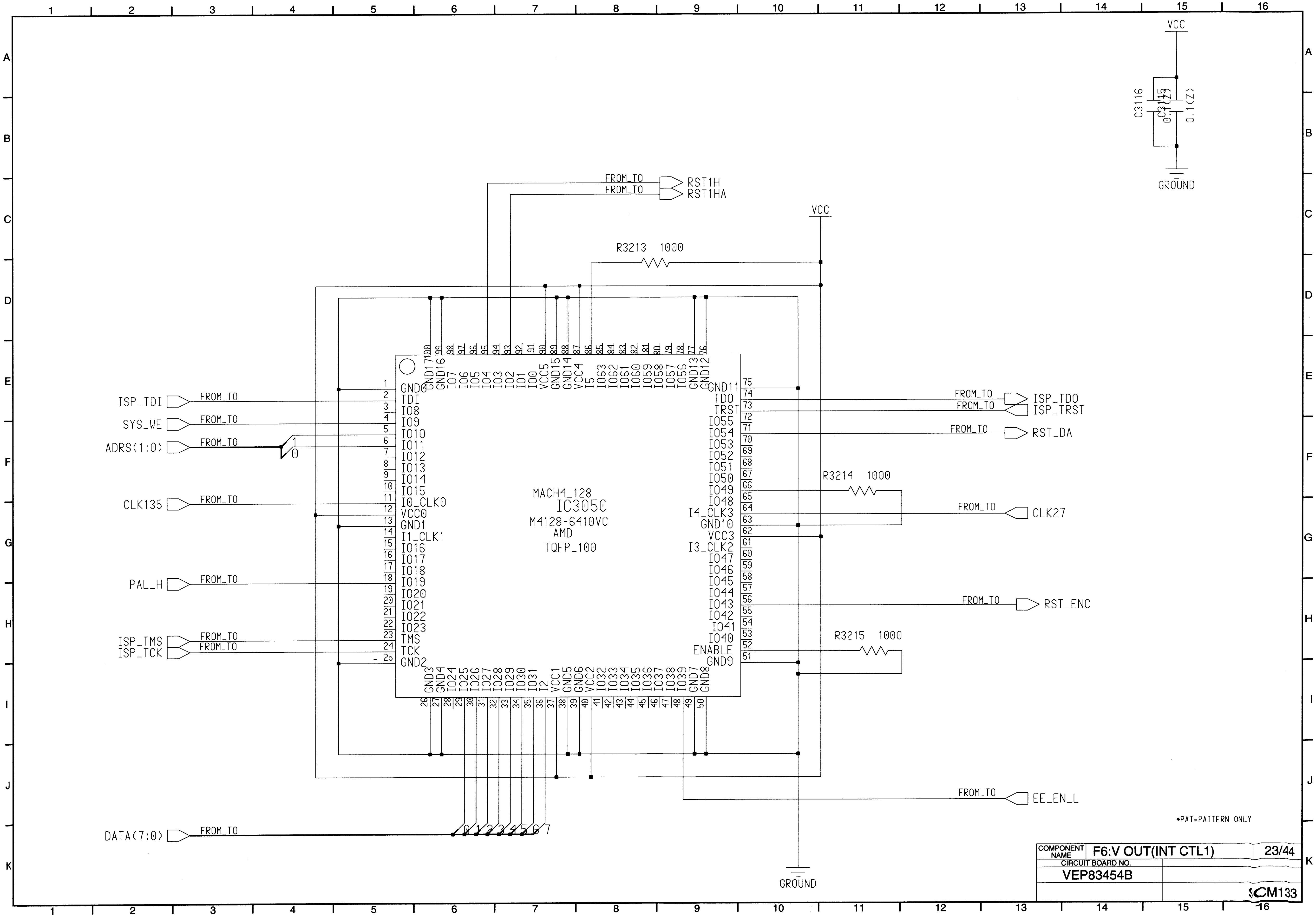

IC3051
NVHC244FTEL
C3117 0.1(Z)
GROUND
+3V
YMAIN(7:0)
FROM_TO
CLK1
IC3052
MN47V78SP
C3121 0.1(Z)
R3221 1000/J3
R3220 1000/J3
R3219 1000/J3
C3118 0.1(Z)
YMDLY1H(7:0)
IC3054
C3125 0.1(Z)
R3218 1000/J3
R3217 1000/J3
R3216 1000/J3
C3124 0.1(Z)
YMDLY(7:0)
RST1HA
RST1H
R3231 1000
CMAIN(7:0)
CLK2
IC3055
C3122 0.1(Z)
R3230 1000/J3
R3228 1000/J3
R3227 1000/J3
C3119 0.1(Z)
CMDLY1H(7:0)
IC3053
C3127 0.1(Z)
R3229 1000/J3
R3226 1000/J3
R3225 1000/J3
C3126 0.1(Z)
CMDLY(7:0)
YSUB(7:0)
CLK3
IC3056
C3123 0.1(Z)
R3224 1000/J3
R3223 1000/J3
R3222 1000/J3
C3120 0.1(Z)
YSDLY(7:0)
DI0
DI1
DI2
DI3
WE_
GND1
TEST
WRST_
WCLK
VDD1
DI4
DI5
DI6
DI7
DO0
DO1
DO2
DO3
RE_
GND2
OE_
RRST_
RCLK
VDD2
DO4
DO5
DO6
DO7
EN1
EN2

420P ONLY

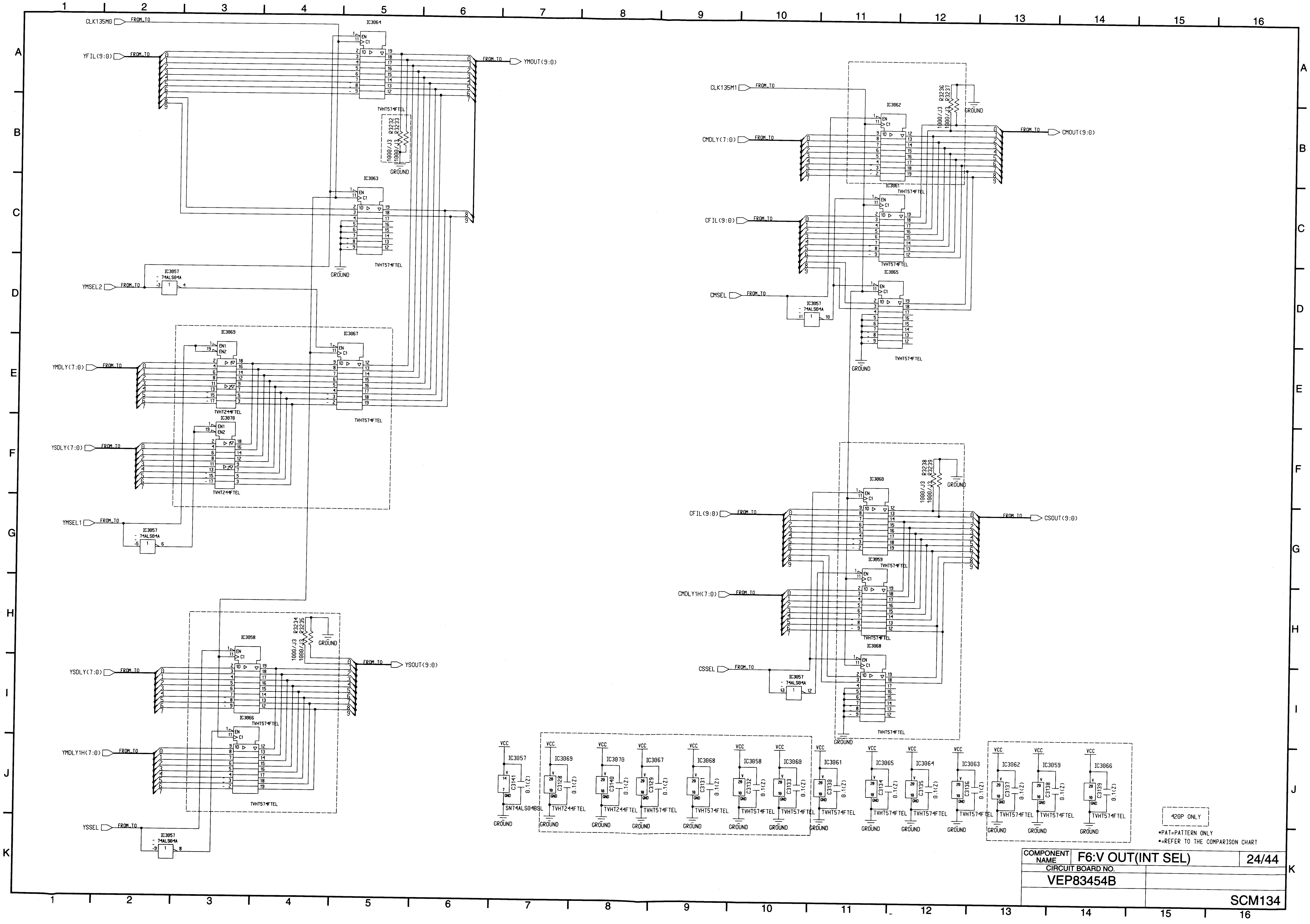
*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT(INT FIFO)	22/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM132

KR3W40(22/44)

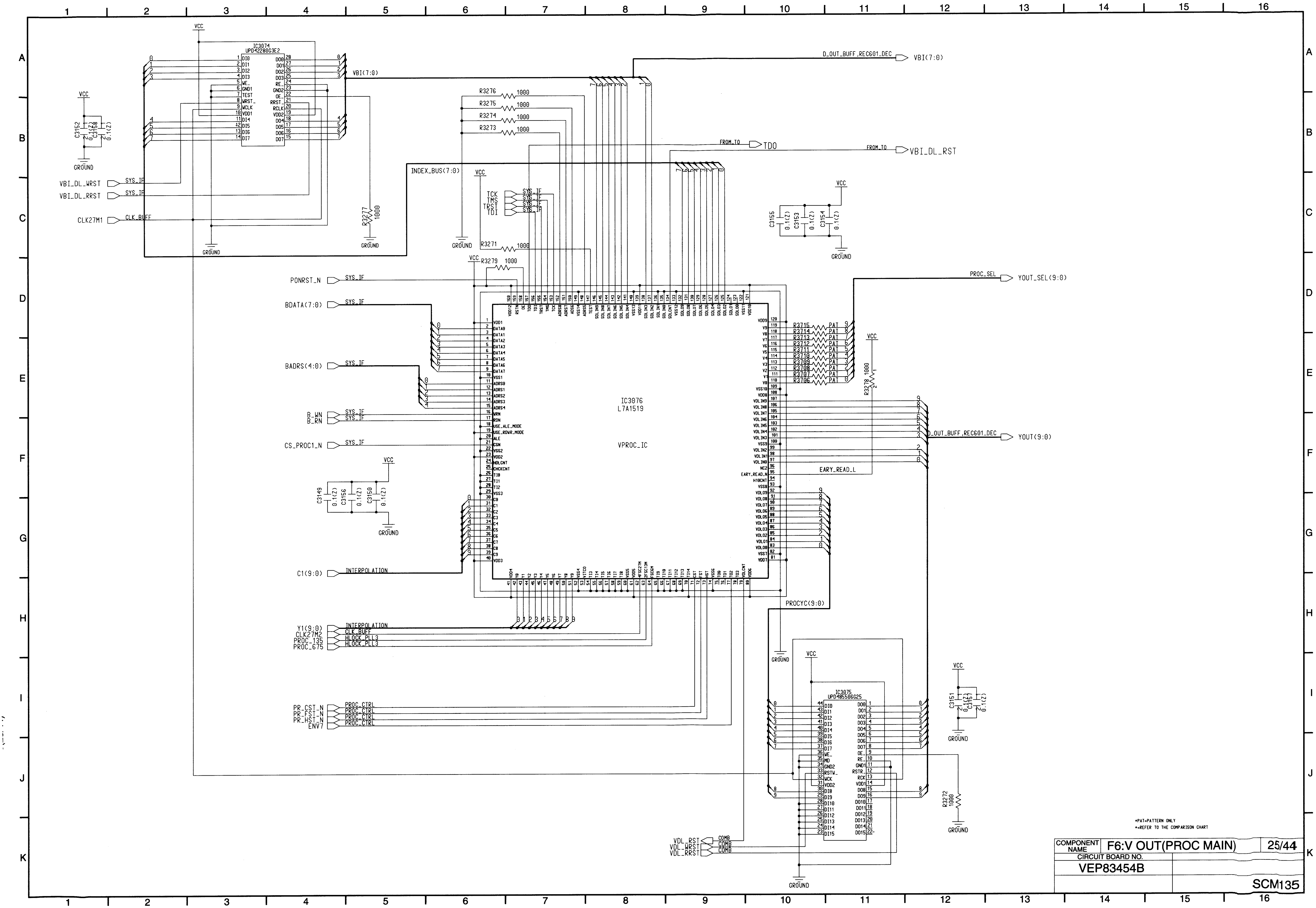

VCC
C3116
C3115
0.1(Z)
0.1(Z)
GROUND
FROM_TO
RST1H
RST1HA
VCC
R3213 1000
ISP_TDI
SYS_WE
ADRS(1:0)
CLK135
PAL_H
ISP_TMS
ISP_TCK
DATA(7:0)
GND0
TDI
IO8
IO9
IO10
IO11
IO12
IO13
IO14
IO15
I0_CLK0
VCC0
GND1
I1_CLK1
IO16
IO17
IO18
IO19
IO20
IO21
IO22
IO23
TMS
TCK
GND2
GND17
GND16
IO7
IO6
IO5
IO4
IO3
IO2
IO1
IO0
VCC5
GND15
GND14
VCC4
I5
IO63
IO62
IO61
IO60
IO59
IO58
IO57
IO56
GND13
GND12
GND11
TDO
TRST
IO55
IO54
IO53
IO52
IO51
IO50
IO49
IO48
I4_CLK3
GND10
VCC3
I3_CLK2
IO47
IO46
IO45
IO44
IO43
IO42
IO41
IO40
ENABLE
GND9
GND3
GND4
IO24
IO25
IO26
IO27
IO28
IO29
IO30
IO31
I2
VCC1
GND5
GND6
VCC2
IO32
IO33
IO34
IO35
IO36
IO37
IO38
IO39
GND7
GND8
MACH4_128
IC3050
M4128-6410VC
AMD
TQFP_100
ISP_TDO
ISP_TRST
RST_DA
R3214 1000
CLK27
RST_ENC
R3215 1000
EE_EN_L
GROUND
*PAT=PATTERN ONLY

COMPONENT NAME	F6:V OUT(INT CTL1)	23/44
CIRCUIT BOARD NO.		
VEP83454B		
		CM133


CLK135M0
YFIL(9:0)
YMOUT(9:0)
IC3064
IC3063
R3232
R3233
1000/J3
GROUND
TVHT574FTEL
YMSEL2
IC3057
74ALS04A
YMDLY(7:0)
IC3069
IC3067
TVHT244FTEL
YSDLY(7:0)
IC3070
YMSEL1
IC3058
R3234
R3235
YSOUT(9:0)
IC3066
YMDLY1H(7:0)
YSSEL
CLK135M1
IC3062
R3236
R3237
CMDLY(7:0)
CMOUT(9:0)
IC3061
CFIL(9:0)
IC3065
CMSEL
IC3060
R3238
R3239
CSOUT(9:0)
IC3059
CMDLY1H(7:0)
IC3068
CSSEL
VCC
C3141
0.1(Z)
SN74ALS04BSL
C3128
C3140
C3129
C3131
C3132
C3133
C3130
C3134
C3135
C3136
C3137
C3138
C3139
TVHT244FTEL
TVHT574FTEL
FROM_TO
420P ONLY
*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

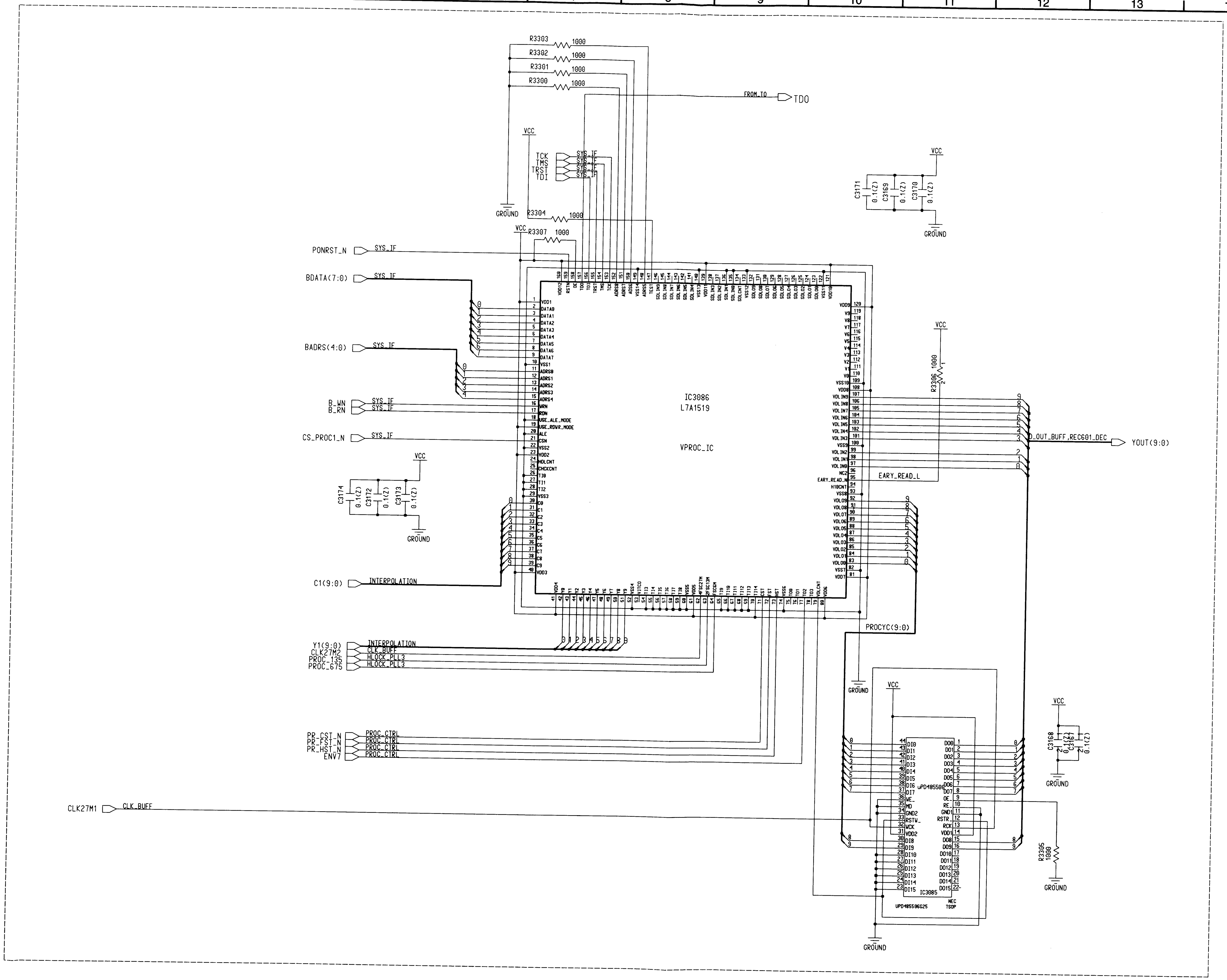
COMPONENT NAME	F6:V OUT(INT SEL)	24/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM134

KR3W40(24/44)


IC3074
UPD42280G3E2
VBI(7:0)
D_OUT_BUFF,REC601_DEC
VBI(7:0)
C3152
0.1(Z)
C3158
0.1(Z)
VCC
GROUND
VBI_DL_WRST
VBI_DL_RRST
SYS_IF
CLK27M1
CLK_BUFF
R3277
1000
R3276
R3275
R3274
R3273
FROM_TO
TDO
VBI_DL_RST
INDEX_BUS(7:0)
TCK
TMS
TRST
TDI
R3271
R3279
C3155
C3153
C3154
PONRST_N
BDATA(7:0)
BADRS(4:0)
B_WN
B_RN
CS_PROC1_N
IC3076
L7A1519
VPROC_IC
PROC_SEL
YOUT_SEL(9:0)
R3715
R3714
R3713
R3712
R3711
R3710
R3709
R3708
R3707
R3706
PAT
R3278
YOUT(9:0)
EARY_READ_L
C3149
C3156
C3150
C1(9:0)
INTERPOLATION
Y1(9:0)
CLK27M2
PROC_135
PROC_675
HLOCK_PLL3
PROCYC(9:0)
PR_CSI_N
PR_FSI_N
PR_HSI_N
ENV7
PROC_CTRL
IC3075
UPD485506G25
C3151
C3157
R3272
VDL_RST
VDL_WRST
VDL_RRST
COMB

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

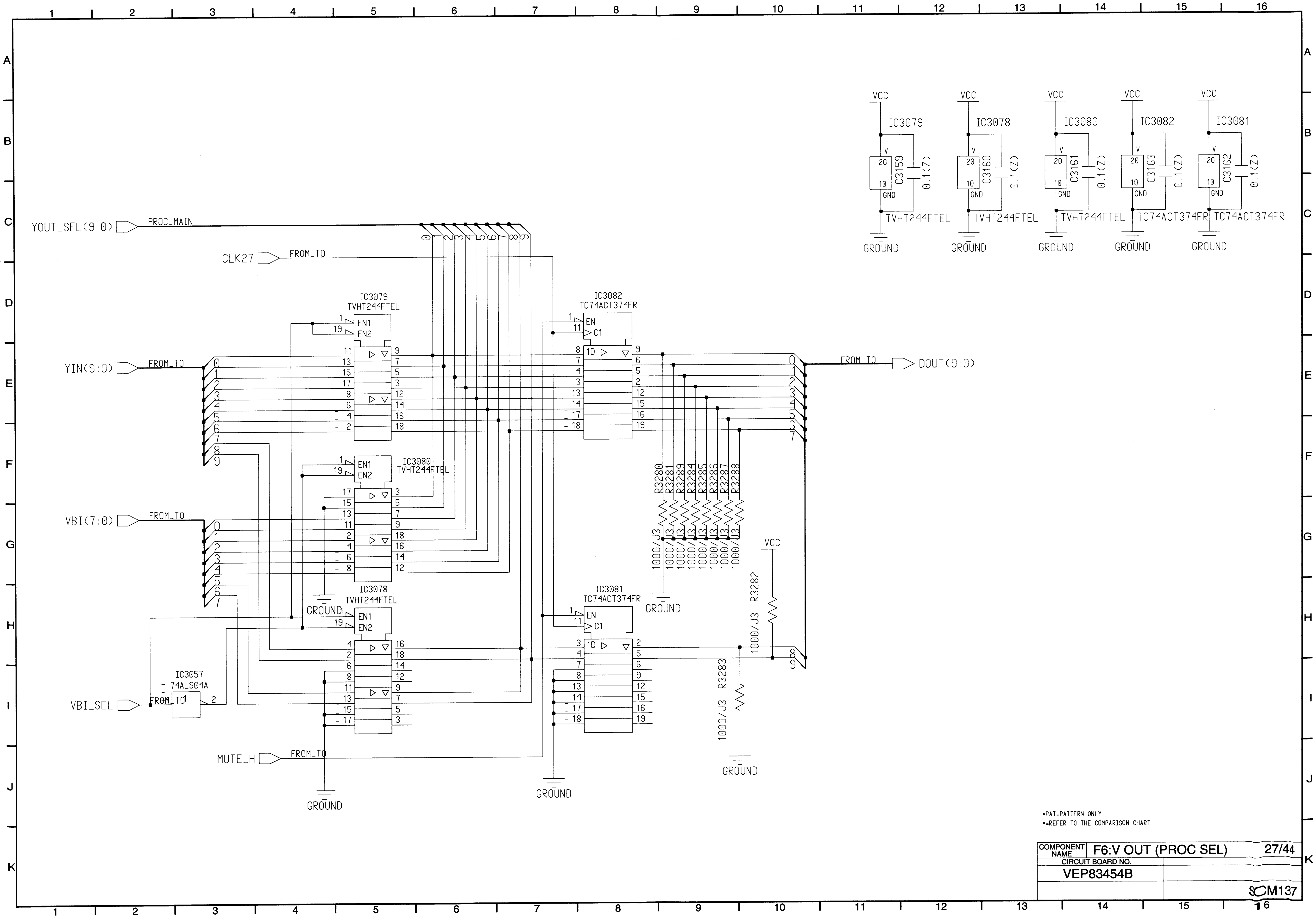
COMPONENT NAME	F6:V OUT(PROC MAIN)	25/44
CIRCUIT BOARD NO.		
VEP83454B		
	SCM135	


R3303 1000
R3302 1000
R3301 1000
R3300 1000
FROM_TO
TDO
VCC
TCK
TMS
TRST
TDI
SYS_IF
GROUND
R3304 1000
R3307 1000
PONRST_N
BDATA(7:0)
BADRS(4:0)
B_WN
B_RN
CS_PROC1_N
C3174 0.1(Z)
C3172 0.1(Z)
C3173 0.1(Z)
C1(9:0)
INTERPOLATION
IC3086
L7A1519
VPROC_IC
Y1(9:0)
CLK27M2
PROC_135
PROC_675
CLK_BUFF
HLOCK_PLL3
PR_CST_N
PR_FST_N
PR_HST_N
ENV7
PROC_CTRL
CLK27M1
C3171 0.1(Z)
C3169 0.1(Z)
C3170 0.1(Z)
R3306 1000
D_OUT_BUFF,REC601_DEC
YOUT(9:0)
EARY_READ_L
PROCYC(9:0)
uPD485506
IC3085
UPD485506G25
NEC
TSOP
C3168 0.1(Z)
C3167 0.1(Z)
R3305 1000

420P ONLY

*PAT=PATTERN ONLY
**REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT (PROC SUB)	26/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM136

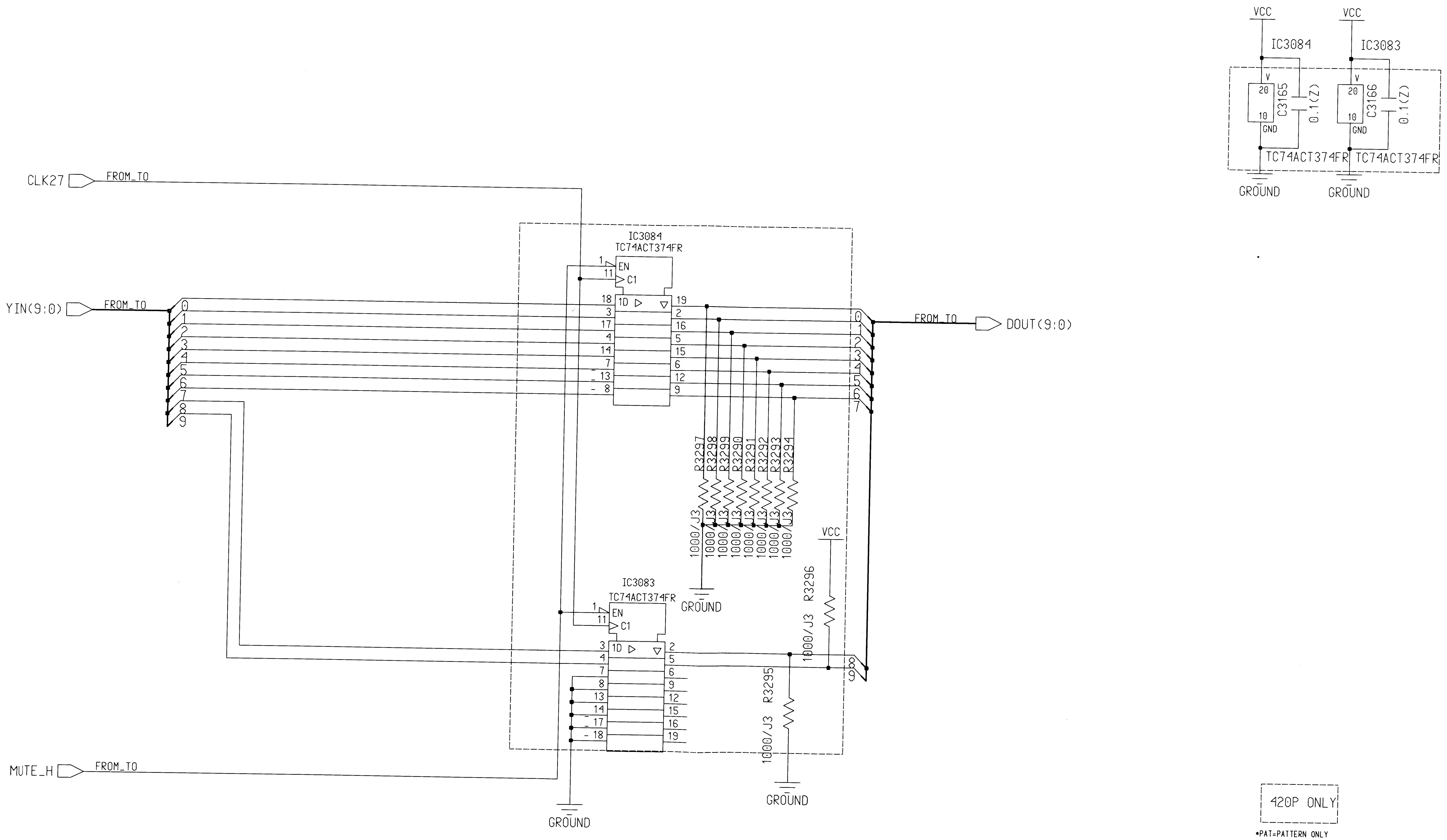

YOUT_SEL(9:0)
PROC_MAIN
CLK27
FROM_TO
YIN(9:0)
FROM_TO
VBI(7:0)
FROM_TO
VBI_SEL
FROM_TO
MUTE_H
FROM_TO
DOUT(9:0)
FROM_TO
IC3079
TVHT244FTEL
IC3080
TVHT244FTEL
IC3078
TVHT244FTEL
IC3082
TC74ACT374FR
IC3081
TC74ACT374FR
IC3057
74ALS04A
EN1
EN2
EN
C1
1D
R3280
R3281
R3289
R3284
R3285
R3286
R3287
R3288
1000/J3
R3282
1000/J3
R3283
1000/J3
C3159
C3160
C3161
C3163
C3162
0.1(Z)
VCC
GND
GROUND

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT (PROC SEL)	27/44
CIRCUIT BOARD NO.		
VEP83454B		

SCM137

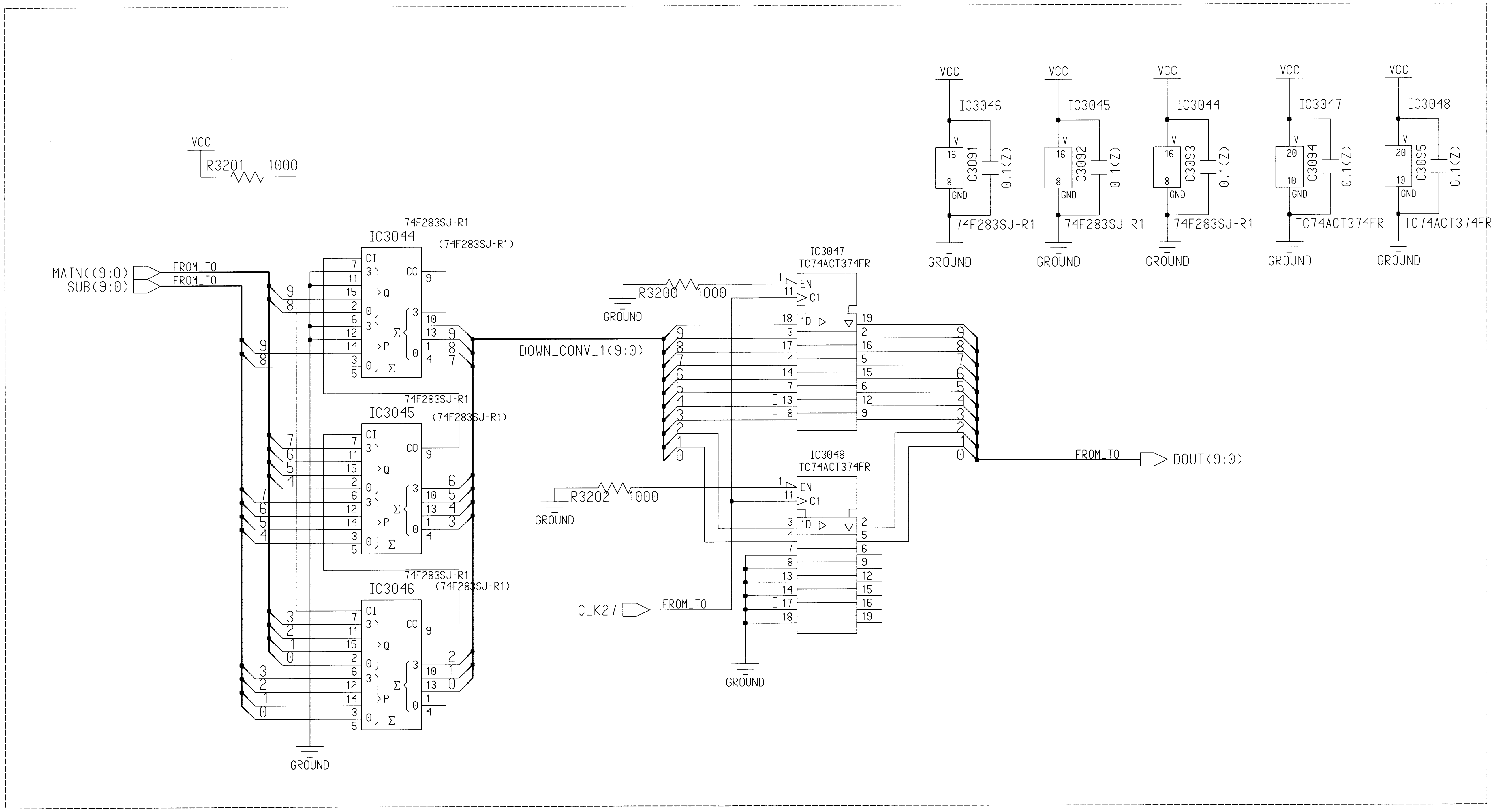
KR3W40(27/44)


CLK27
FROM_TO
YIN(9:0)
FROM_TO
DOUT(9:0)
FROM_TO
MUTE_H
FROM_TO
IC3084
TC74ACT374FR
EN
C1
1D
IC3083
TC74ACT374FR
R3297
R3298
R3299
R3290
R3291
R3292
R3293
R3294
1000/J3
GROUND
VCC
R3296
1000/J3
R3295
1000/J3
GROUND
GROUND
VCC
IC3084
C3165
0.1(Z)
GND
TC74ACT374FR
GROUND
VCC
IC3083
C3166
0.1(Z)
GND
TC74ACT374FR
GROUND
420P ONLY

•PAT=PATTERN ONLY
•=REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT (PROC SEL1)	28/44
CIRCUIT BOARD NO.		
VEP83454B		
	SCM138	

KR3W40(28/44)

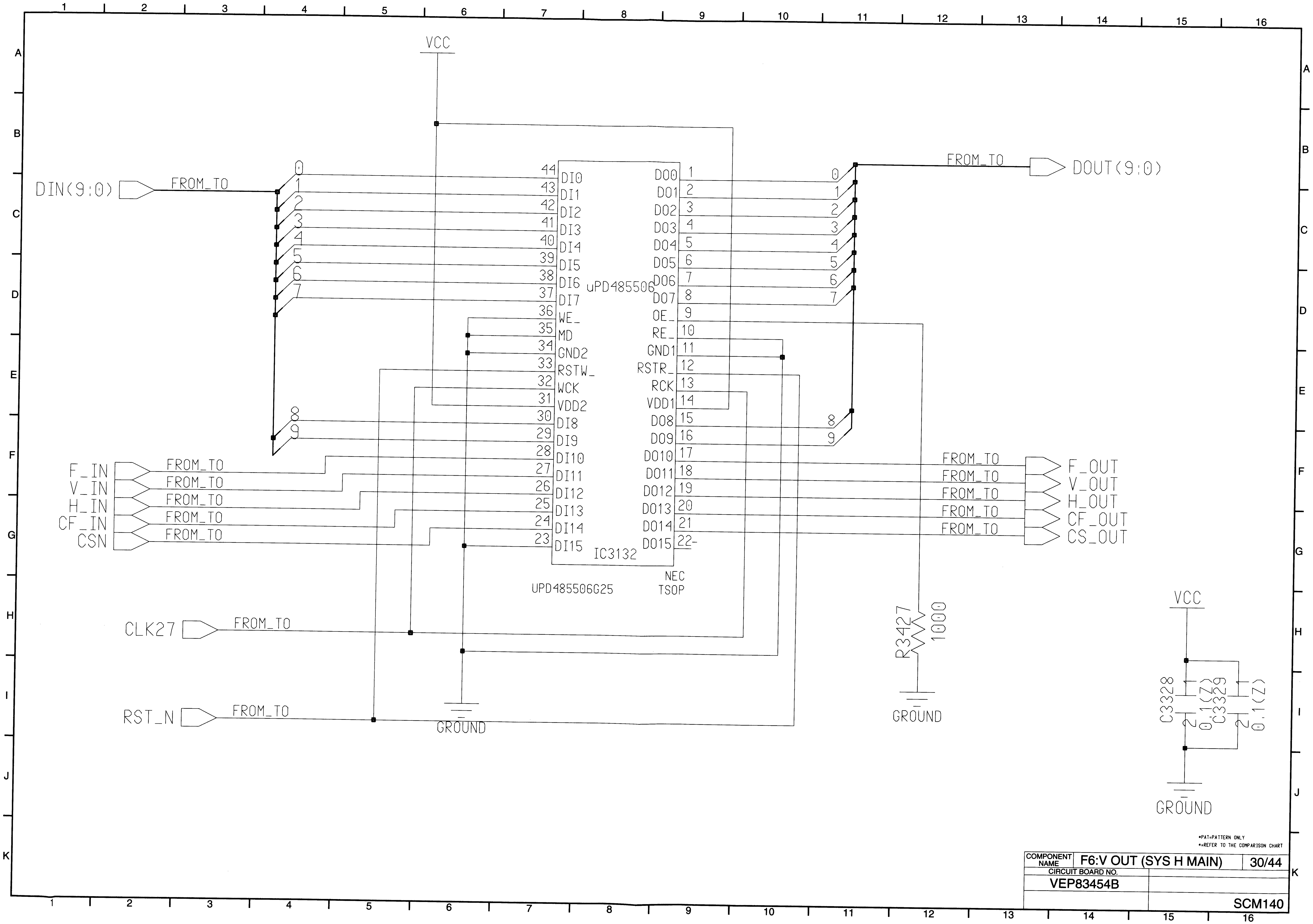

VCC
R3201 1000
74F283SJ-R1
IC3044
(74F283SJ-R1)
MAIN((9:0)
SUB(9:0)
FROM_TO
FROM_TO
CI
CO
Q
P
Σ
74F283SJ-R1
IC3045
(74F283SJ-R1)
74F283SJ-R1
IC3046
(74F283SJ-R1)
GROUND
DOWN_CONV_1(9:0)
IC3047
TC74ACT374FR
R3200 1000
GROUND
EN
C1
1D
IC3048
TC74ACT374FR
R3202 1000
GROUND
CLK27
FROM_TO
GROUND
FROM_TO
DOUT(9:0)
VCC
IC3046
C3091
0.1(Z)
74F283SJ-R1
GROUND
VCC
IC3045
C3092
0.1(Z)
74F283SJ-R1
GROUND
VCC
IC3044
C3093
0.1(Z)
74F283SJ-R1
GROUND
VCC
IC3047
C3094
0.1(Z)
TC74ACT374FR
GROUND
VCC
IC3048
C3095
0.1(Z)
TC74ACT374FR
GROUND
V
GND

420P ONLY

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT (DOWN CON)	29/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM139

KR3W40(29/44)

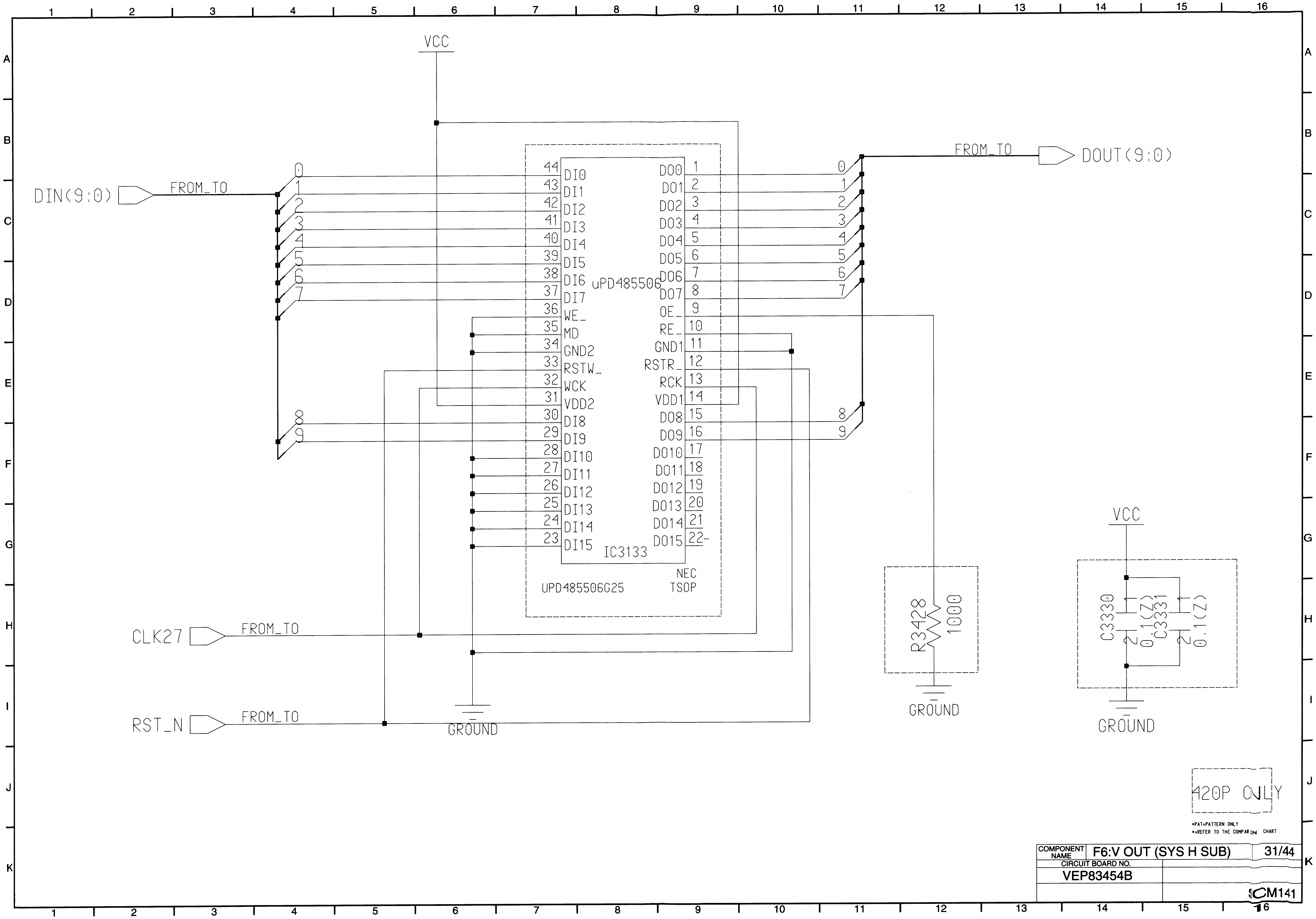

VCC
DIN(9:0)
FROM_TO
0
1
2
3
4
5
6
7
8
9
44 DI0
43 DI1
42 DI2
41 DI3
40 DI4
39 DI5
38 DI6
37 DI7
36 WE_
35 MD
34 GND2
33 RSTW_
32 WCK
31 VDD2
30 DI8
29 DI9
28 DI10
27 DI11
26 DI12
25 DI13
24 DI14
23 DI15
uPD485506
IC3132
UPD485506G25
NEC
TSOP
DO0 1
DO1 2
DO2 3
DO3 4
DO4 5
DO5 6
DO6 7
DO7 8
OE_ 9
RE_ 10
GND1 11
RSTR_ 12
RCK 13
VDD1 14
DO8 15
DO9 16
DO10 17
DO11 18
DO12 19
DO13 20
DO14 21
DO15 22-
DOUT(9:0)
F_IN
V_IN
H_IN
CF_IN
CSN
F_OUT
V_OUT
H_OUT
CF_OUT
CS_OUT
CLK27
RST_N
GROUND
R3427
1000
C3328
0.1(Z)
C3329
0.1(Z)
1
2
A
B
C
D
E
F
G
H
I
J
K
10
11
12
13
14
15
16

*PAT=PATTERN ONLY
**=REFER TO THE COMPARISON CHART

COMPONENT NAME | F6:V OUT (SYS H MAIN) | 30/44

CIRCUIT BOARD NO.
VEP83454B

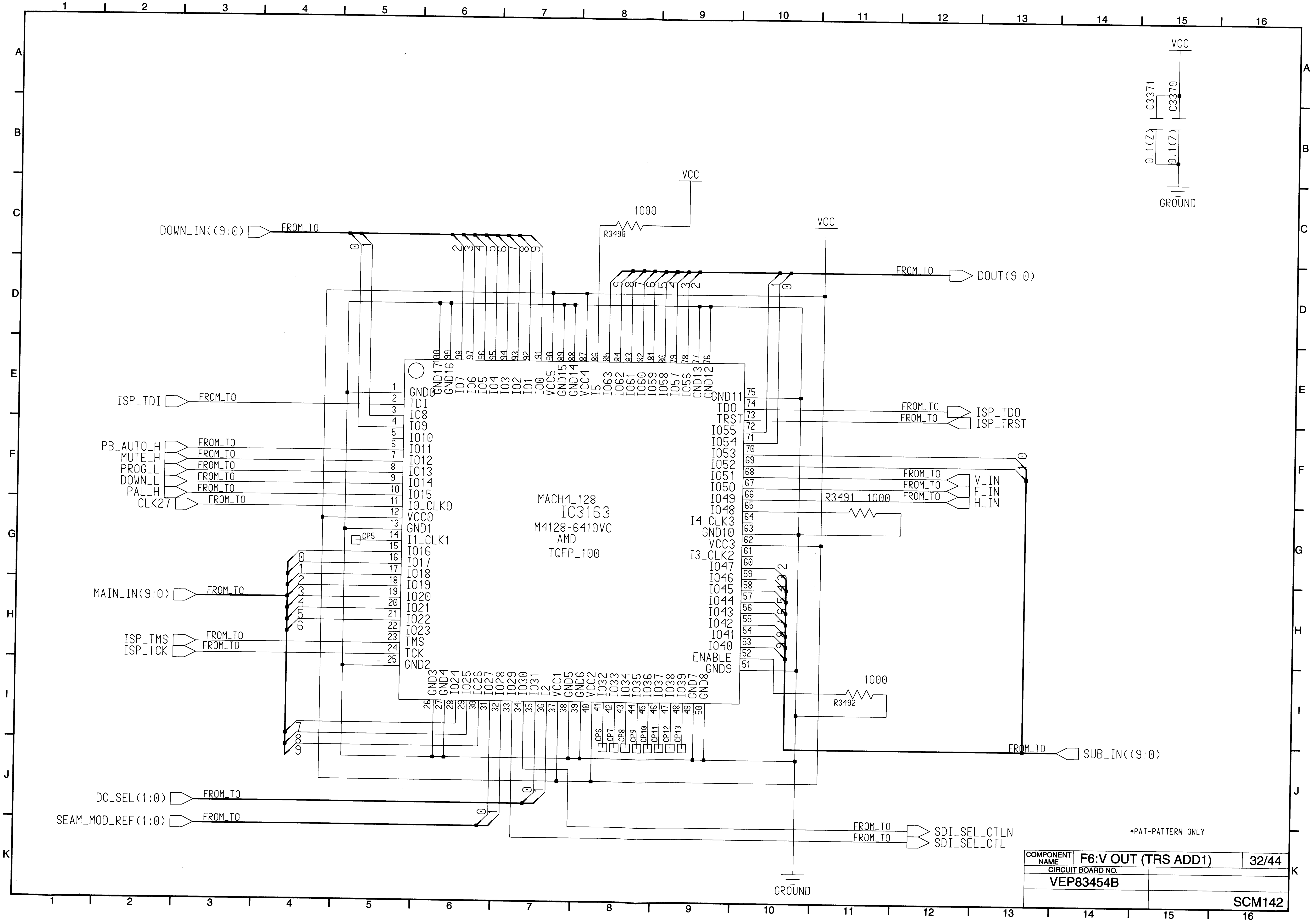
SCM140


VCC
DIN(9:0)
FROM_TO
0
1
2
3
4
5
6
7
8
9
44 DI0
43 DI1
42 DI2
41 DI3
40 DI4
39 DI5
38 DI6
37 DI7
36 WE_
35 MD
34 GND2
33 RSTW_
32 WCK
31 VDD2
30 DI8
29 DI9
28 DI10
27 DI11
26 DI12
25 DI13
24 DI14
23 DI15
uPD485506
DO0 1
DO1 2
DO2 3
DO3 4
DO4 5
DO5 6
DO6 7
DO7 8
OE_ 9
RE_ 10
GND1 11
RSTR_ 12
RCK 13
VDD1 14
DO8 15
DO9 16
DO10 17
DO11 18
DO12 19
DO13 20
DO14 21
DO15 22-
IC3133
UPD485506G25
NEC
TSOP
FROM_TO
DOUT(9:0)
CLK27
FROM_TO
RST_N
FROM_TO
GROUND
R3428
1000
GROUND
VCC
C3330
1
2
0.1(Z)
C3331
1
2
0.1(Z)
GROUND
420P ONLY

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT (SYS H SUB)	31/44
CIRCUIT BOARD NO.		
VEP83454B		
		CM141

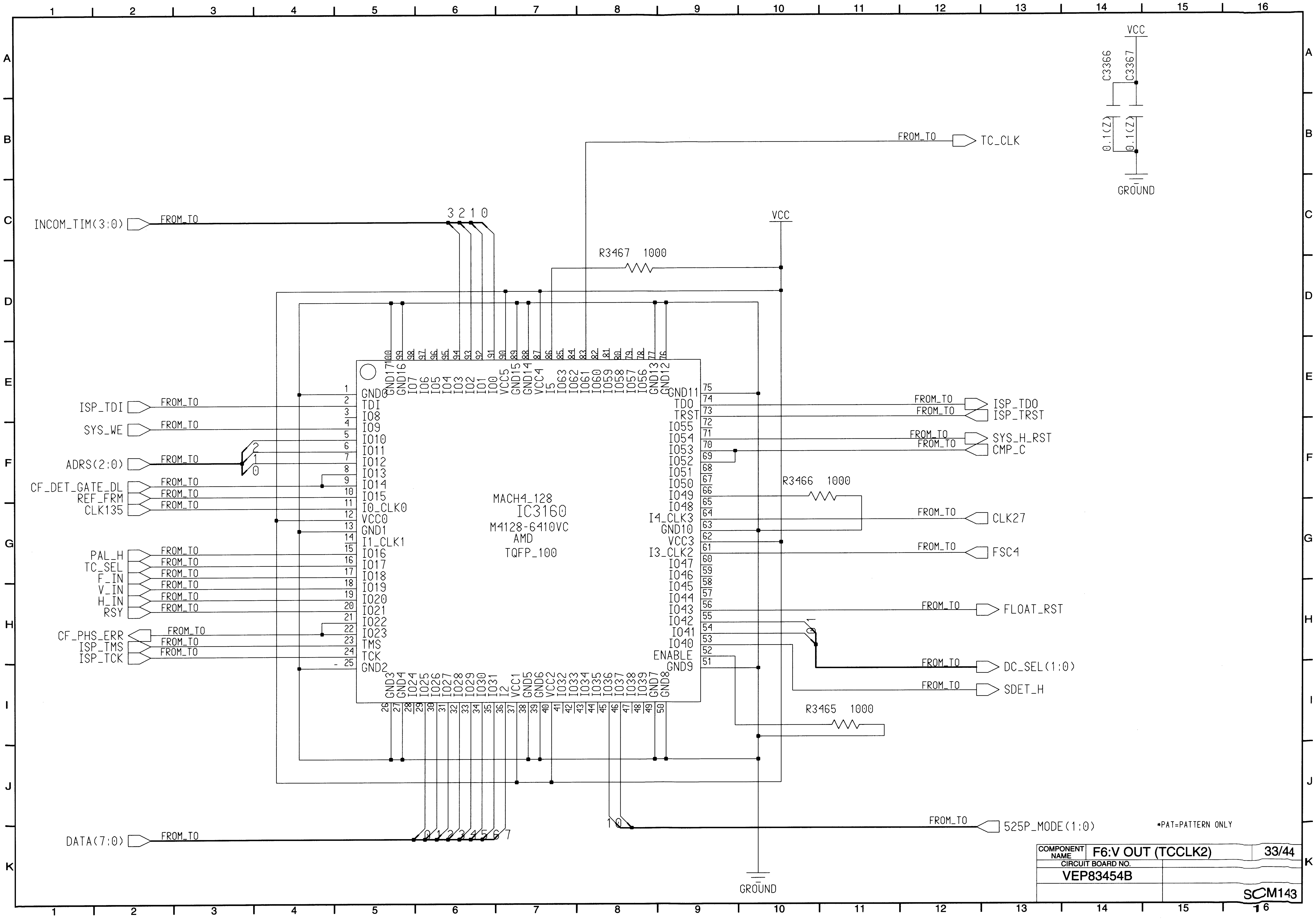
KR3W40(31/44)


VCC
C3371
C3370
0.1(Z)
0.1(Z)
GROUND
VCC
1000
R3490
VCC
DOWN_IN((9:0)
FROM_TO
DOUT(9:0)
FROM_TO
ISP_TDI
FROM_TO
PB_AUTO_H
MUTE_H
PROG_L
DOWN_L
PAL_H
CLK27
FROM_TO
ISP_TDO
ISP_TRST
FROM_TO
V_IN
F_IN
H_IN
FROM_TO
R3491 1000
MACH4_128
IC3163
M4128-6410VC
AMD
TQFP_100
GND0
TDI
IO8
IO9
IO10
IO11
IO12
IO13
IO14
IO15
IO_CLK0
VCC0
GND1
I1_CLK1
IO16
IO17
IO18
IO19
IO20
IO21
IO22
IO23
TMS
TCK
GND2
GND17
GND16
IO7
IO6
IO5
IO4
IO3
IO2
IO1
IO0
VCC5
GND15
GND14
VCC4
I5
IO63
IO62
IO61
IO60
IO59
IO58
IO57
IO56
GND13
GND12
GND11
TDO
TRST
IO55
IO54
IO53
IO52
IO51
IO50
IO49
IO48
I4_CLK3
GND10
VCC3
I3_CLK2
IO47
IO46
IO45
IO44
IO43
IO42
IO41
IO40
ENABLE
GND9
GND3
GND4
IO24
IO25
IO26
IO27
IO28
IO29
IO30
IO31
I2
VCC1
GND5
GND6
VCC2
IO32
IO33
IO34
IO35
IO36
IO37
IO38
IO39
GND7
GND8
CP5
CP6
CP7
CP8
CP9
CP10
CP11
CP12
CP13
MAIN_IN(9:0)
FROM_TO
ISP_TMS
ISP_TCK
FROM_TO
1000
R3492
SUB_IN((9:0)
FROM_TO
DC_SEL(1:0)
SEAM_MOD_REF(1:0)
FROM_TO
SDI_SEL_CTLN
SDI_SEL_CTL
FROM_TO
GROUND

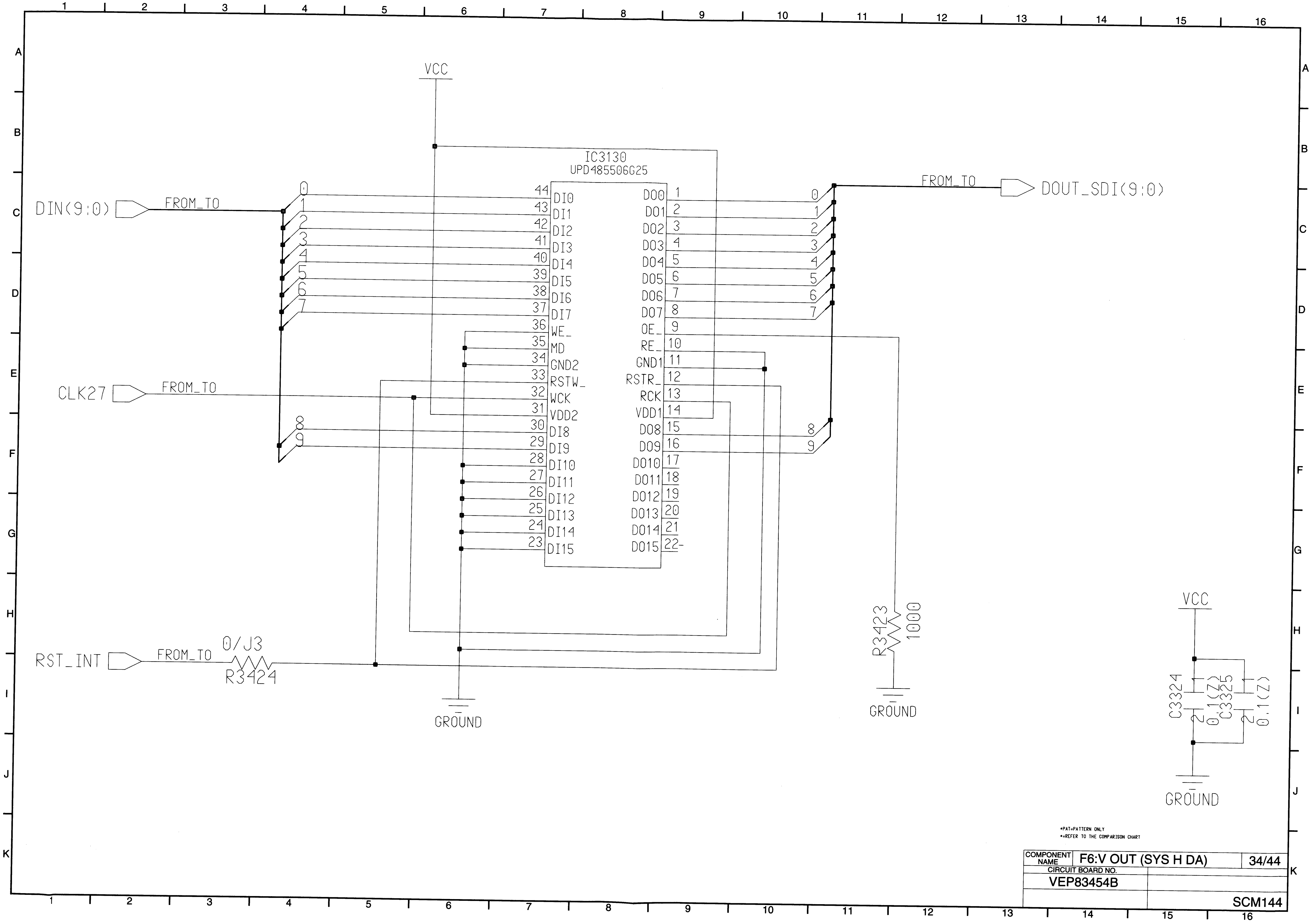
*PAT=PATTERN ONLY

COMPONENT NAME	F6:V OUT (TRS ADD1)	32/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM142

KR3W40(32/44)


INCOM_TIM(3:0)
FROM_TO
3 2 1 0
TC_CLK
VCC
C3366
C3367
0.1(Z)
0.1(Z)
GROUND
R3467 1000
ISP_TDI
SYS_WE
ADRS(2:0)
CF_DET_GATE_DL
REF_FRM
CLK135
PAL_H
TC_SEL
F_IN
V_IN
H_IN
RSY
CF_PHS_ERR
ISP_TMS
ISP_TCK
DATA(7:0)
MACH4_128
IC3160
M4128-6410VC
AMD
TQFP_100
GND0
TDI
IO8
IO9
IO10
IO11
IO12
IO13
IO14
IO15
I0_CLK0
VCC0
GND1
I1_CLK1
IO16
IO17
IO18
IO19
IO20
IO21
IO22
IO23
TMS
TCK
GND2
GND11
TDO
TRST
IO55
IO54
IO53
IO52
IO51
IO50
IO49
IO48
I4_CLK3
GND10
VCC3
I3_CLK2
IO47
IO46
IO45
IO44
IO43
IO42
IO41
IO40
ENABLE
GND9
GND17
GND16
IO7
IO6
IO5
IO4
IO3
IO2
IO1
IO0
VCC5
GND15
GND14
VCC4
I5
IO63
IO62
IO61
IO60
IO59
IO58
IO57
IO56
GND13
GND12
GND3
GND4
IO24
IO25
IO26
IO27
IO28
IO29
IO30
IO31
I2
VCC1
GND5
GND6
VCC2
IO32
IO33
IO34
IO35
IO36
IO37
IO38
IO39
GND7
GND8
ISP_TDO
ISP_TRST
SYS_H_RST
CMP_C
R3466 1000
CLK27
FSC4
FLOAT_RST
DC_SEL(1:0)
SDET_H
R3465 1000
525P_MODE(1:0)
0 1 2 3 4 5 6 7
*PAT=PATTERN ONLY
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

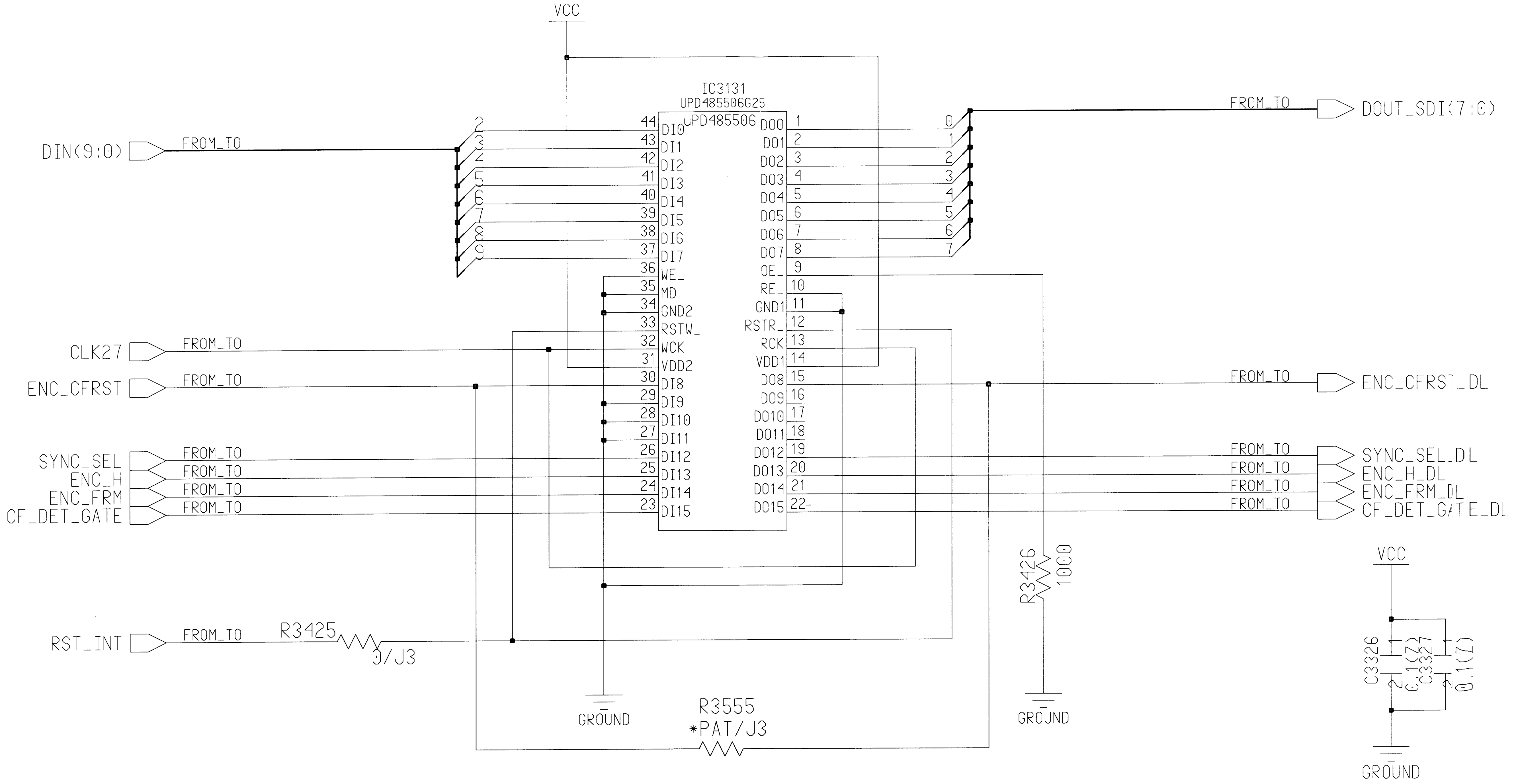
COMPONENT NAME	F6:V OUT (TCCLK2)	33/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM143


VCC
IC3130
UPD485506G25
DIN(9:0)
FROM_TO
DOUT_SDI(9:0)
CLK27
RST_INT
0/J3
R3424
R3423
1000
GROUND
C3324
0.1(Z)
C3325
0.1(Z)
44 DI0
43 DI1
42 DI2
41 DI3
40 DI4
39 DI5
38 DI6
37 DI7
36 WE_
35 MD
34 GND2
33 RSTW_
32 WCK
31 VDD2
30 DI8
29 DI9
28 DI10
27 DI11
26 DI12
25 DI13
24 DI14
23 DI15
DO0 1
DO1 2
DO2 3
DO3 4
DO4 5
DO5 6
DO6 7
DO7 8
OE_ 9
RE_ 10
GND1 11
RSTR_ 12
RCK 13
VDD1 14
DO8 15
DO9 16
DO10 17
DO11 18
DO12 19
DO13 20
DO14 21
DO15 22-
0
1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
H
I
J
K
10
11
12
13
14
15
16

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

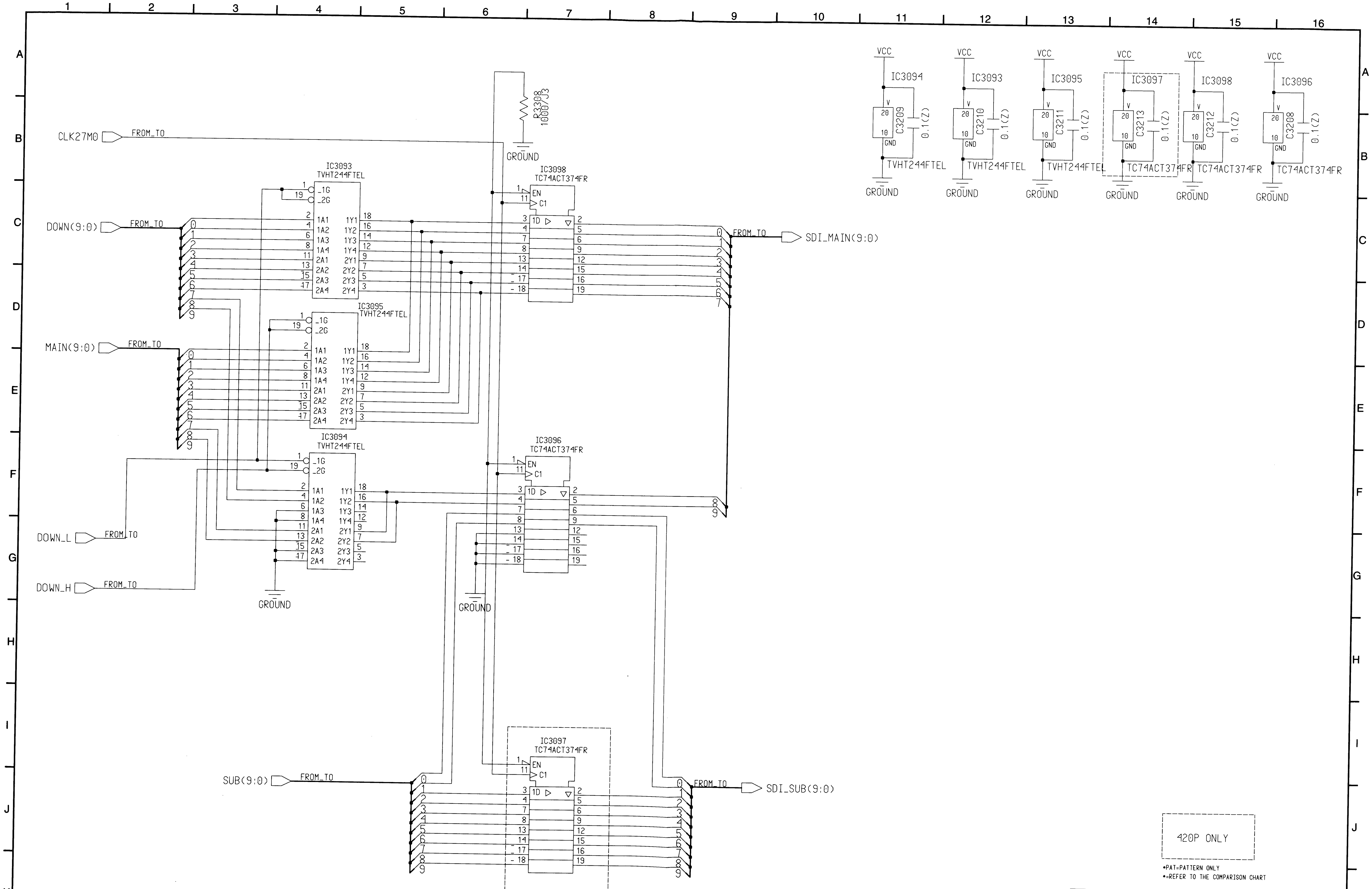
COMPONENT NAME	F6:V OUT (SYS H DA)	34/44
CIRCUIT BOARD NO.		
VEP83454B		
	SCM144	

KR3W40(34/44)


VCC
IC3131
UPD485506G25
uPD485506
DIN(9:0)
FROM_TO
2
3
4
5
6
7
8
9
44 DI0
43 DI1
42 DI2
41 DI3
40 DI4
39 DI5
38 DI6
37 DI7
36 WE_
35 MD
34 GND2
33 RSTW_
32 WCK
31 VDD2
30 DI8
29 DI9
28 DI10
27 DI11
26 DI12
25 DI13
24 DI14
23 DI15
DO0 1
DO1 2
DO2 3
DO3 4
DO4 5
DO5 6
DO6 7
DO7 8
OE_ 9
RE_ 10
GND1 11
RSTR_ 12
RCK 13
VDD1 14
DO8 15
DO9 16
DO10 17
DO11 18
DO12 19
DO13 20
DO14 21
DO15 22-
0
1
2
3
4
5
6
7
FROM_TO
DOUT_SDI(7:0)
CLK27
FROM_TO
ENC_CFRST
FROM_TO
FROM_TO
ENC_CFRST_DL
SYNC_SEL
ENC_H
ENC_FRM
CF_DET_GATE
FROM_TO
FROM_TO
FROM_TO
FROM_TO
FROM_TO
FROM_TO
FROM_TO
FROM_TO
SYNC_SEL_DL
ENC_H_DL
ENC_FRM_DL
CF_DET_GATE_DL
R3426
1000
VCC
C3326
0.1(Z)
C3327
0.1(Z)
RST_INT
FROM_TO
R3425
0/J3
GROUND
R3555
*PAT/J3
GROUND
GROUND

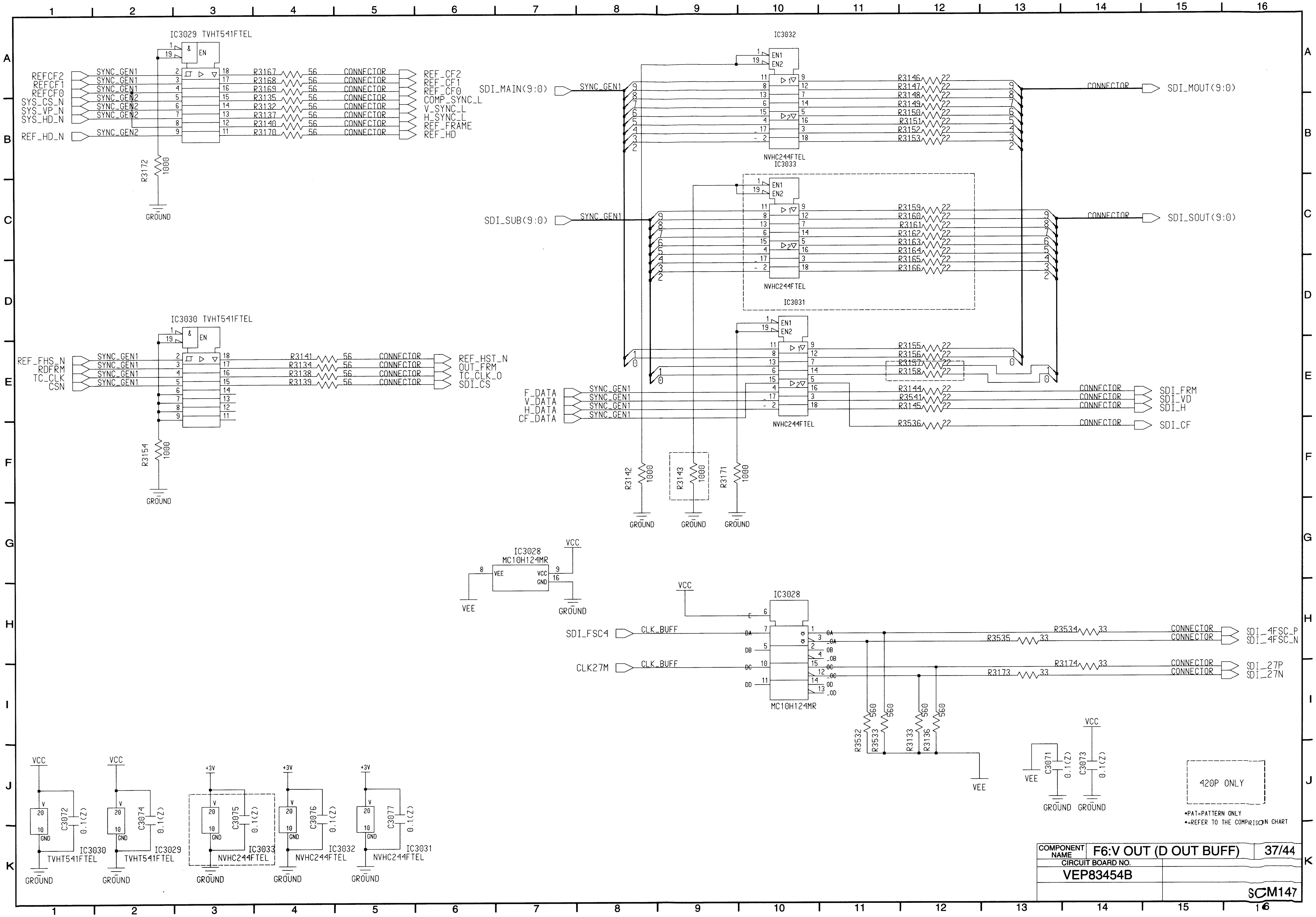
*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT (SYS H ENC1)	35/44
CIRCUIT BOARD NO.		
VEP83454B		
	SCM145	


CLK27M0
FROM_TO
DOWN(9:0)
MAIN(9:0)
DOWN_L
DOWN_H
SUB(9:0)
SDI_MAIN(9:0)
SDI_SUB(9:0)
IC3093
TVHT244FTEL
IC3095
TVHT244FTEL
IC3094
TVHT244FTEL
IC3098
TC74ACT374FR
IC3096
TC74ACT374FR
IC3097
TC74ACT374FR
R3308
1000/J3
GROUND
VCC
C3209
C3210
C3211
C3213
C3212
C3208
0.1(Z)
420P ONLY
*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT (SDI SEL)	36/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM146

KR3W40(36/44)

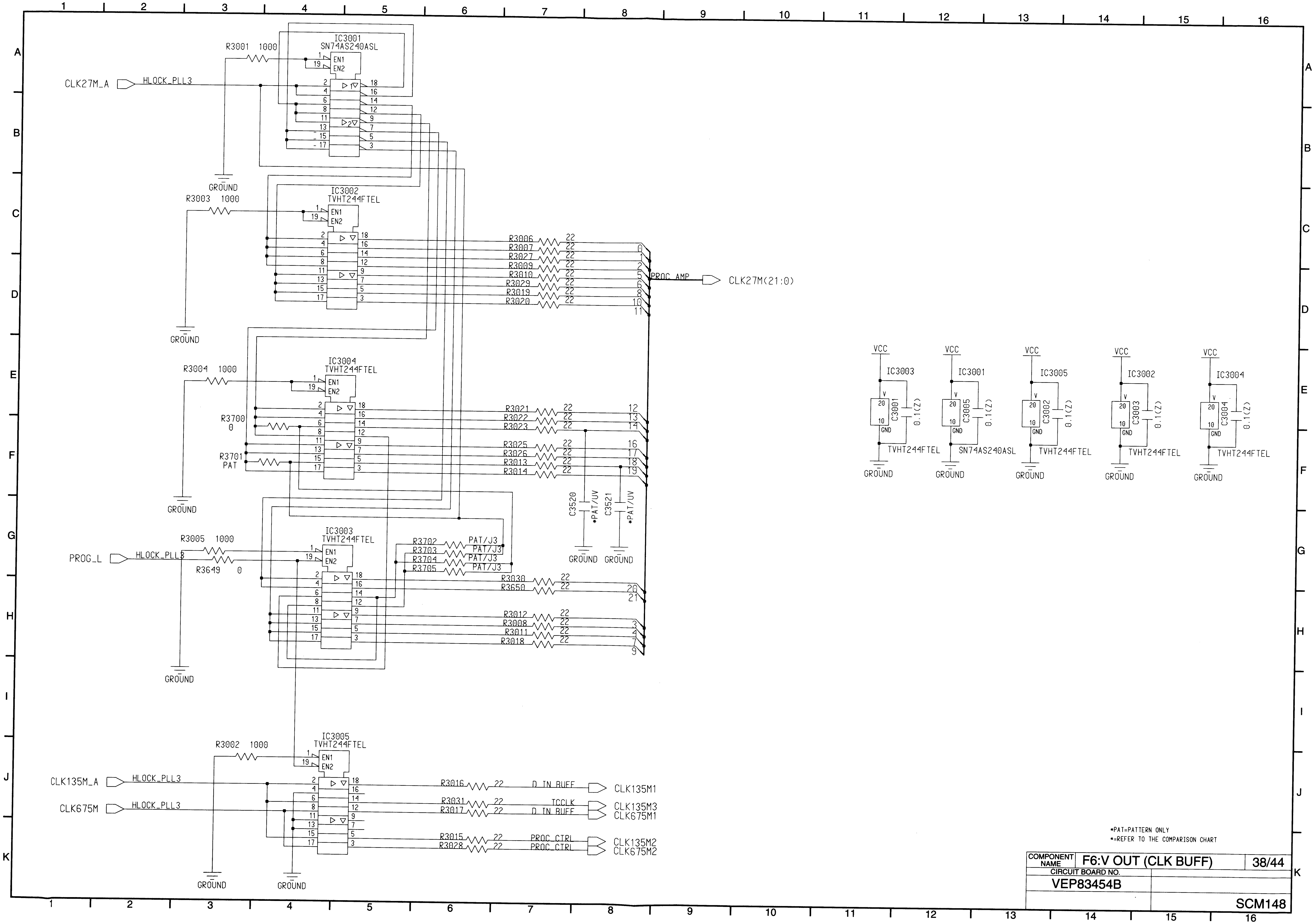

IC3029 TVHT541FTEL
REFCF2
REFCF1
REFCF0
SYS_CS_N
SYS_VP_N
SYS_HD_N
REF_HD_N
SYNC_GEN1
SYNC_GEN2
R3167 56
R3168 56
R3169 56
R3135 56
R3132 56
R3137 56
R3140 56
R3170 56
CONNECTOR
REF_CF2
REF_CF1
REF_CF0
COMP_SYNC_L
V_SYNC_L
H_SYNC_L
REF_FRAME
REF_HD
R3172 1000
GROUND
IC3030 TVHT541FTEL
REF_FHS_N
RDFRM
TC_CLK
CSN
R3141 56
R3134 56
R3138 56
R3139 56
REF_HST_N
OUT_FRM
TC_CLK_O
SDI_CS
R3154 1000
IC3032
EN1
EN2
SDI_MAIN(9:0)
R3146 22
R3147 22
R3148 22
R3149 22
R3150 22
R3151 22
R3152 22
R3153 22
SDI_MOUT(9:0)
NVHC244FTEL
IC3033
SDI_SUB(9:0)
R3159 22
R3160 22
R3161 22
R3162 22
R3163 22
R3164 22
R3165 22
R3166 22
SDI_SOUT(9:0)
IC3031
R3155 22
R3156 22
R3157 22
R3158 22
F_DATA
V_DATA
H_DATA
CF_DATA
R3144 22
R3541 22
R3145 22
R3536 22
SDI_FRM
SDI_VD
SDI_H
SDI_CF
R3142 1000
R3143 1000
R3171 1000
IC3028
MC10H124MR
VCC
VEE
GND
SDI_FSC4
CLK27M
CLK_BUFF
R3534 33
R3535 33
R3174 33
R3173 33
SDI_4FSC_P
SDI_4FSC_N
SDI_27P
SDI_27N
R3532 560
R3533 560
R3133 560
R3136 560
C3071 0.1(Z)
C3073 0.1(Z)
C3072 0.1(Z)
C3074 0.1(Z)
C3075 0.1(Z)
C3076 0.1(Z)
C3077 0.1(Z)
+3V
420P ONLY
*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

COMPONENT NAME F6:V OUT (D OUT BUFF) 37/44

CIRCUIT BOARD NO.

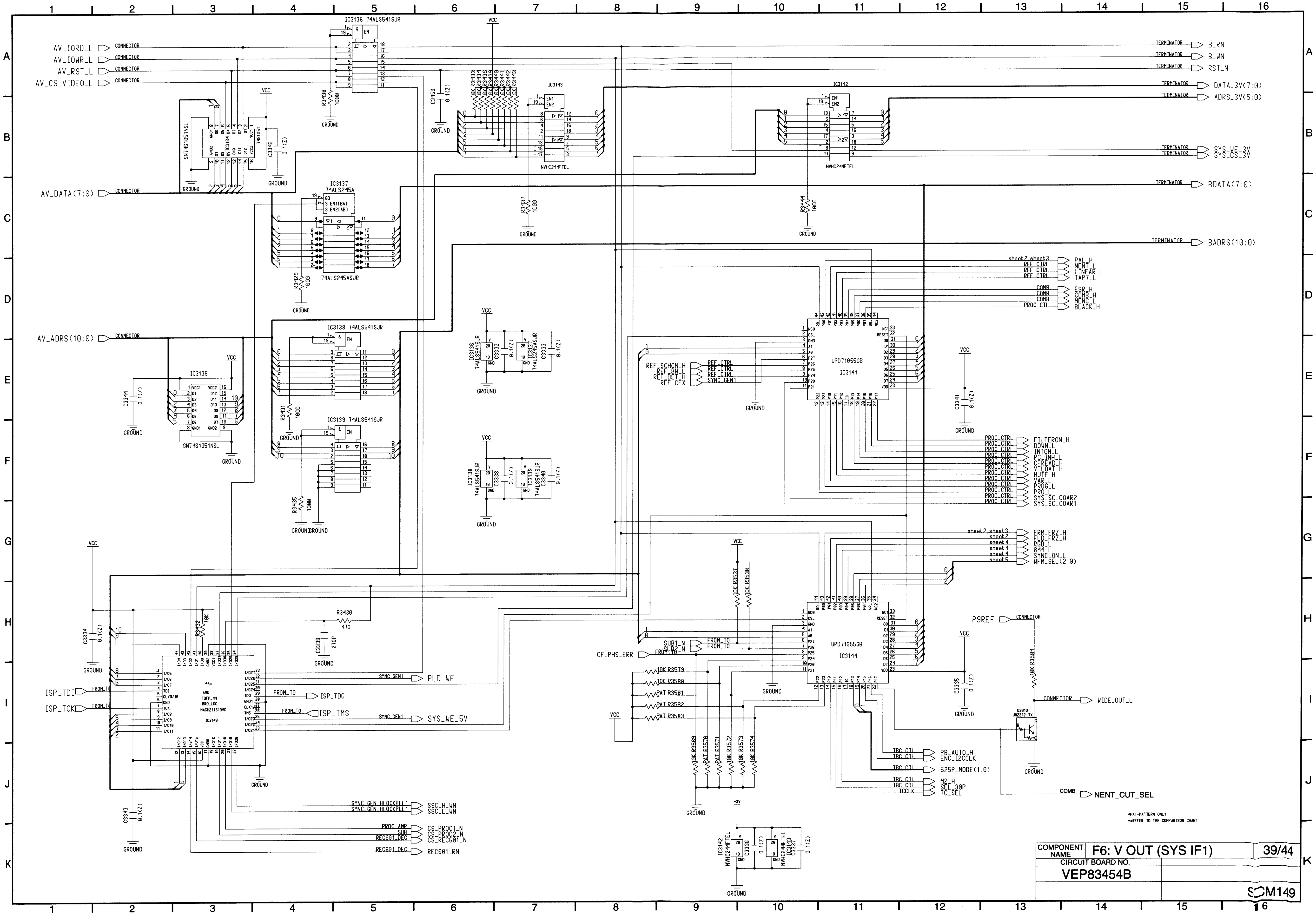
VEP83454B

SCM147


CLK27M_A
HLOCK_PLL3
R3001 1000
IC3001
SN74AS240ASL
EN1
EN2
GROUND
R3003 1000
IC3002
TVHT244FTEL
R3006 22
R3007 22
R3027 22
R3009 22
R3010 22
R3029 22
R3019 22
R3020 22
PROC_AMP
CLK27M(21:0)
R3004 1000
IC3004
TVHT244FTEL
R3700 0
R3701 PAT
R3021 22
R3022 22
R3023 22
R3025 22
R3026 22
R3013 22
R3014 22
C3520 *PAT/UV
C3521 *PAT/UV
PROG_L
R3005 1000
R3649 0
IC3003
TVHT244FTEL
R3702 PAT/J3
R3703 PAT/J3
R3704 PAT/J3
R3705 PAT/J3
R3030 22
R3650 22
R3012 22
R3008 22
R3011 22
R3018 22
R3002 1000
IC3005
TVHT244FTEL
CLK135M_A
CLK675M
R3016 22 D_IN_BUFF
R3031 22 TCCLK
R3017 22 D_IN_BUFF
R3015 22 PROC_CTRL
R3028 22 PROC_CTRL
CLK135M1
CLK135M3
CLK675M1
CLK135M2
CLK675M2
VCC
IC3003 C3001 0.1(Z) TVHT244FTEL
IC3001 C3005 0.1(Z) SN74AS240ASL
IC3005 C3002 0.1(Z) TVHT244FTEL
IC3002 C3003 0.1(Z) TVHT244FTEL
IC3004 C3004 0.1(Z) TVHT244FTEL
GND

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

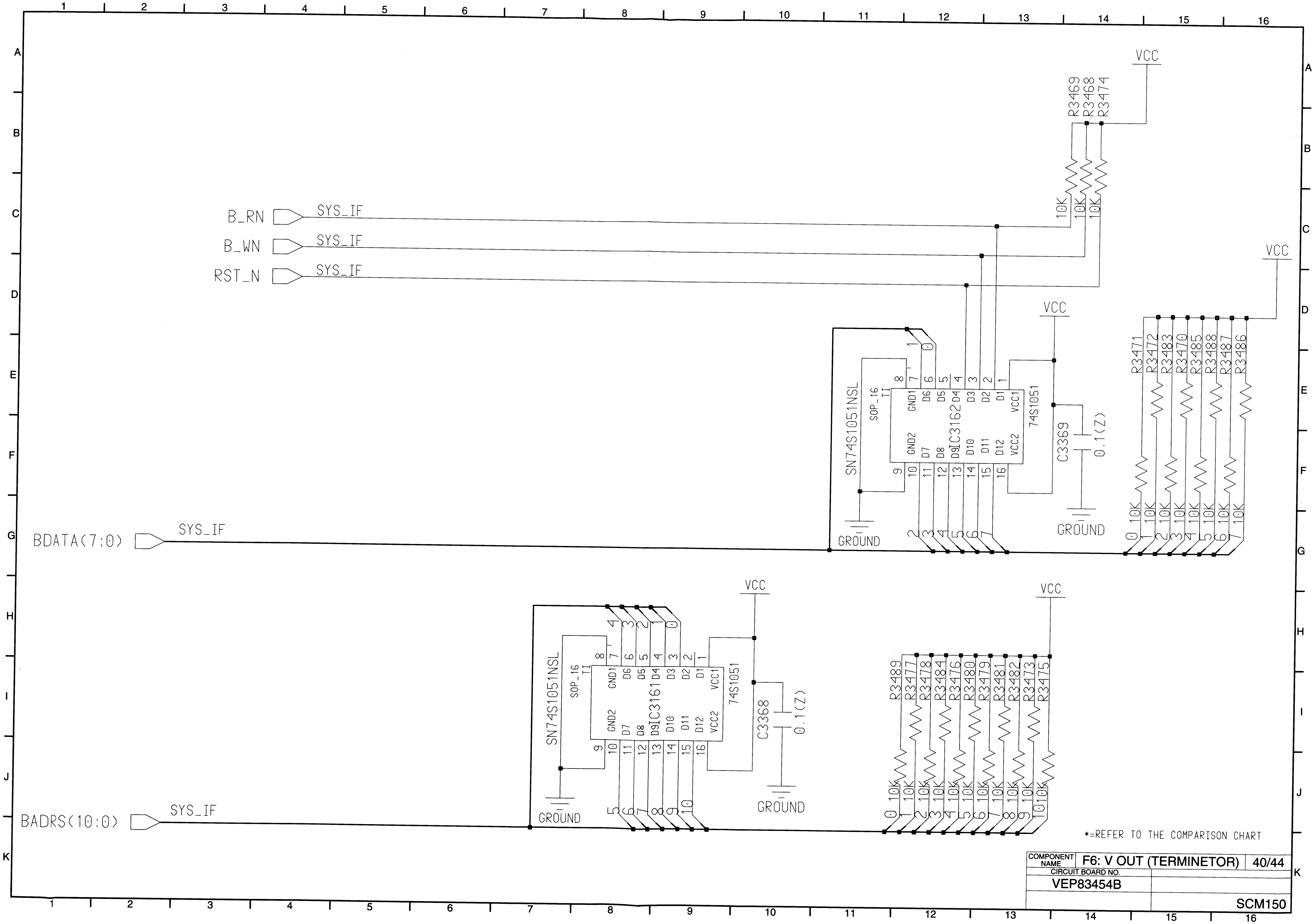
COMPONENT NAME	F6:V OUT (CLK BUFF)	38/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM148


AV_IORD_L
AV_IOWR_L
AV_RST_L
AV_CS_VIDEO_L
AV_DATA(7:0)
AV_ADRS(10:0)
CONNECTOR
IC3136 74ALS541SJR
IC3137 74ALS245A
74ALS245ASJR
IC3138 74ALS541SJR
IC3139 74ALS541SJR
IC3134
SN74S1051NSL
IC3135
IC3143
NVHC244FTEL
IC3142
IC3141
UPD71055GB
IC3144
IC3140
MACH211SDVC
TQFP_44
VCC
GROUND
TERMINATOR
B_RN
B_WN
RST_N
DATA_3V(7:0)
ADRS_3V(5:0)
SYS_WE_3V
SYS_CS_3V
BDATA(7:0)
BADRS(10:0)
PAL_H
NENT_L
LINEAR_L
TAP7_L
ESR_H
COMB_H
MENC_L
BLACK_H
REF_SCHON_H
REF_RW_L
REF_DET_H
REF_CFX
FILTERON_H
DOWN_L
INTON_L
PC_INH_L
CFREAD_H
VFLOAT_H
MUTE_H
VAR_L
PROG_L
PRO_L
SYS_SC_COAR2
SYS_SC_COAR1
PROC_CTRL
FRM_FRZ_H
FLD_FRZ_H
RGB_L
844_L
SYNC_ON_L
WFM_SEL(2:0)
P9REF
SUB1_N
SUB2_N
CF_PHS_ERR
FROM_TO
WIDE_OUT_L
Q3810
UN2212-TX
PB_AUTO_H
ENC_I2CCLK
525P_MODE(1:0)
M2_H
SEL_30P
TC_SEL
TBC_CTL
NENT_CUT_SEL
COMB
ISP_TDI
ISP_TCK
ISP_TDO
ISP_TMS
PLD_WE
SYS_WE_5V
SYNC_GEN1
SSC_H_WN
SSC_L_WN
SYNC_GEN_HLOCKPLL1
CS_PROC1_N
CS_PROC2_N
CS_REC601_N
REC601_RN
PROC_AMP
REC601_DEC
R3430 470
C3339 270P
R3432 10K
R3438 1000
R3437 1000
R3444 1000
R3429 1000
R3431 1000
R3435 1000
C3459 0.1(Z)
C3342 0.1(Z)
C3344 0.1(Z)
C3332 0.1(Z)
C3333 0.1(Z)
C3338 0.1(Z)
C3340 0.1(Z)
C3341 0.1(Z)
C3334 0.1(Z)
C3343 0.1(Z)
C3335 0.1(Z)
C3336 0.1(Z)
C3337 0.1(Z)
10K R3537
10K R3538
10K R3579
10K R3580
PAT R3581
PAT R3582
PAT R3583
10K R3569
PAT R3570
PAT R3571
PAT R3572
10K R3573
10K R3574
10K R3584
+3V
*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

COMPONENT NAME	F6: V OUT (SYS IF1)	39/44
CIRCUIT BOARD NO.		
VEP83454B		

SCM149

KR3W40(39/44)

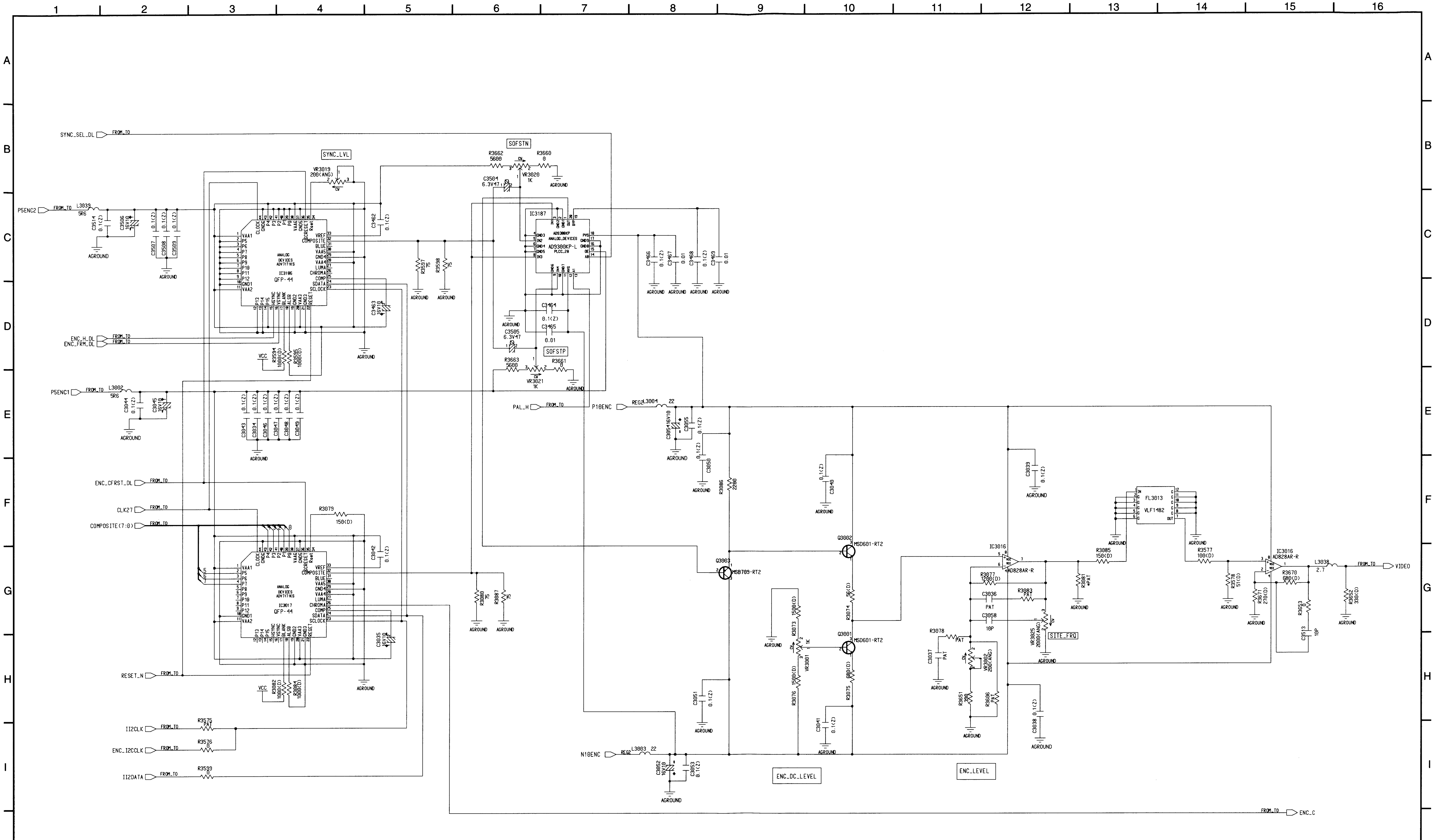

B_RN
B_WN
RST_N
SYS_IF
BDATA(7:0)
BADRS(10:0)
VCC
GROUND
R3469
R3468
R3474
10K
R3471
R3472
R3483
R3470
R3485
R3488
R3487
R3486
SN74S1051NSL
SOP_16
IC3162
74S1051
GND1
GND2
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
VCC1
VCC2
C3369
0.1(Z)
SN74S1051NSL
SOP_16
IC3161
74S1051
C3368
0.1(Z)
R3489
R3477
R3478
R3484
R3476
R3480
R3479
R3481
R3482
R3473
R3475
*=REFER TO THE COMPARISON CHART

COMPONENT NAME F6: V OUT (TERMINETOR) 40/44

CIRCUIT BOARD NO. VEP83454B

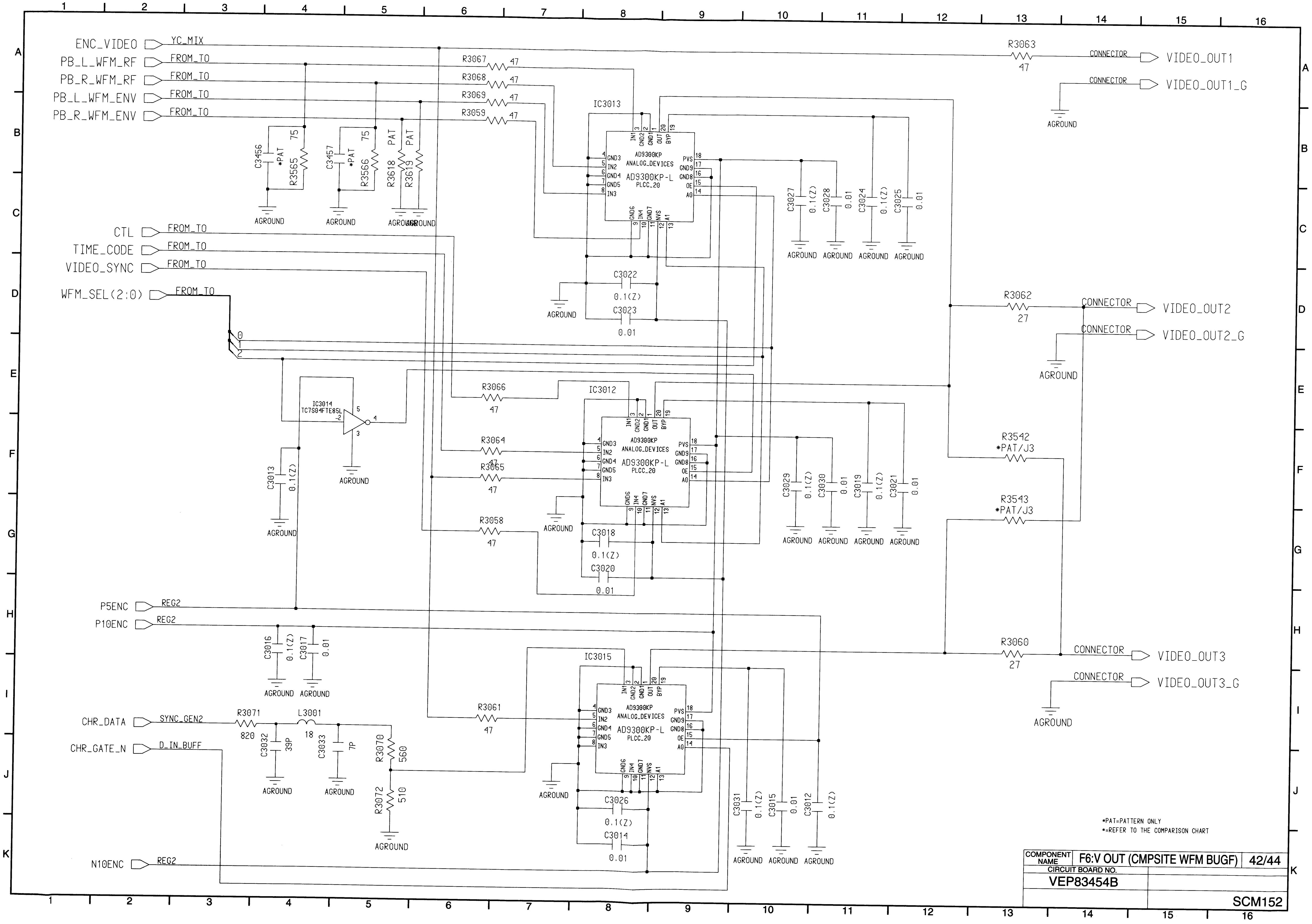
SCM150

KR3W40(40/44)

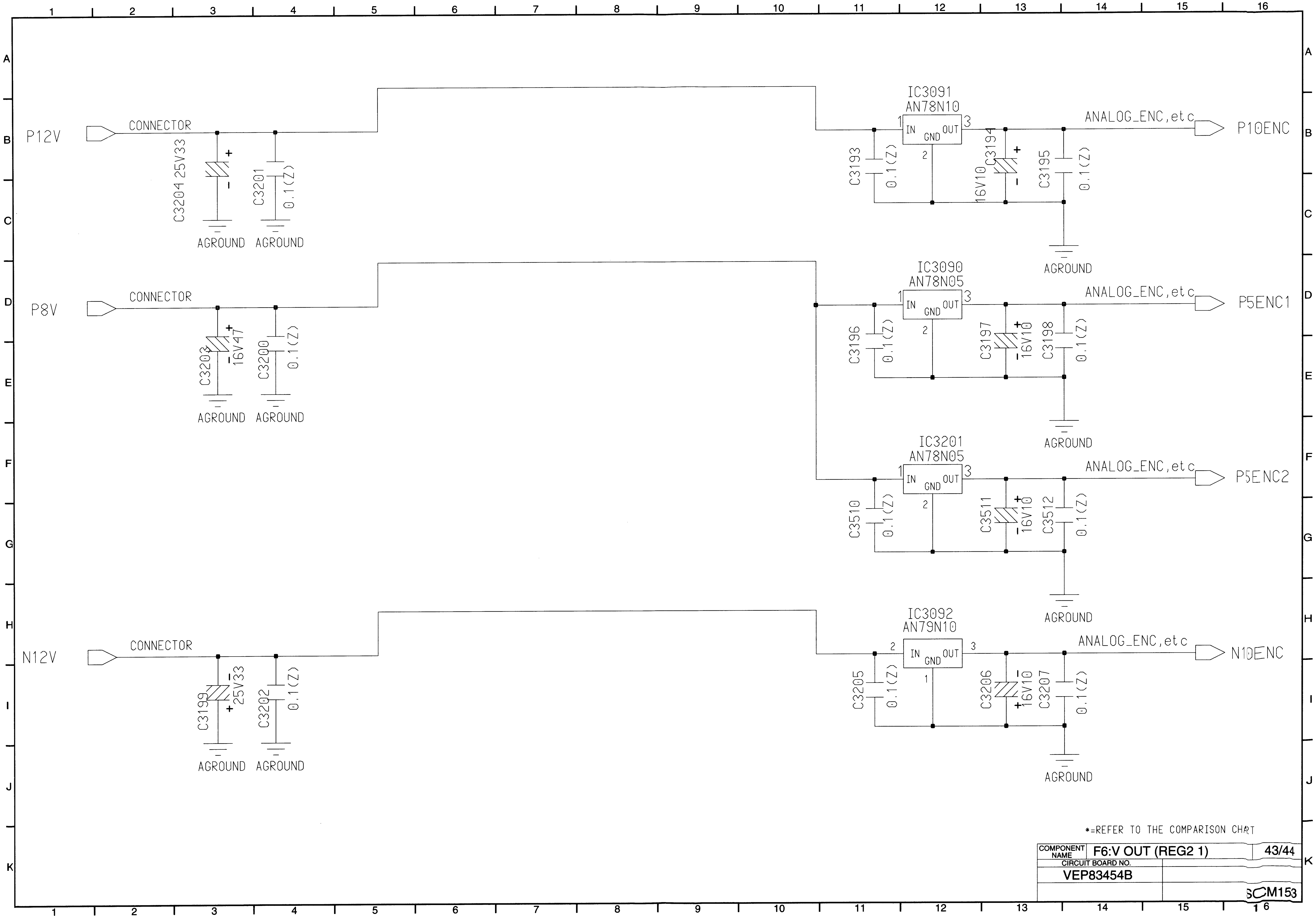

SYNC_SEL_DL
FROM_TO
SYNC_LVL
SOFSTN
R3662
5600
R3660
0
VR3019
200(ANG)
VR3020
1K
C3504
6.3V47
P5ENC2
L3039
5R6
C3514
C3506
16V10
C3507
C3508
C3509
0.1(Z)
AGROUND
IC3186
ANALOG DEVICES ADV7176KS
QFP-44
C3462
IC3187
AD9300KP-L
PLCC_28
R3597
75
R3598
75
C3466
C3467
C3468
C3469
0.01
C3463
16V10
C3464
C3465
C3505
6.3V47
SOFSTP
R3663
5600
R3661
0
VR3021
1K
ENC_H_DL
ENC_FRM_DL
VCC
R3594
1000(D)
R3595
1000(D)
P5ENC1
L3002
5R6
C3044
C3045
16V10
C3043
C3034
C3046
C3047
C3048
C3049
PAL_H
P10ENC
REG2
L3004
22
C3954
16V10
C3055
C3050
R3086
2200
C3040
C3039
ENC_CFRST_DL
CLK27
COMPOSITE(7:0)
R3079
150(D)
IC3017
C3042
R3080
75
R3087
75
C3035
16V10
R3082
1000(D)
R3084
1000(D)
RESET_N
Q3002
MSD601-RT2
Q3003
MSB709-RT2
Q3001
MSD601-RT2
R3073
1500(D)
VR3001
1K
R3076
1500(D)
R3074
56(D)
R3075
680(D)
C3051
C3041
IC3016
AD828AR-R
R3077
1200(D)
C3036
PAT
C3058
10P
R3083
PAT
R3078
PAT
C3037
PAT
VR3025
2000(ANG)
SITE_FRQ
VR3002
200(ANG)
R3651
390
R3656
PAT
C3038
R3081
PAT
R3085
150(D)
FL3013
VLF1482
R3577
100(D)
R3578
51(D)
R3671
270(D)
R3670
680(D)
R3653
0
C3513
10P
L3038
2.7
R3652
330(D)
VIDEO
II2CLK
R3575
PAT
ENC_I2CLK
R3576
0
II2DATA
R3599
0
N10ENC
L3003
22
C3052
16V10
C3053
ENC_DC_LEVEL
ENC_LEVEL
ENC_C
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

*PAT=PATTERN ONLY

COMPONENT NAME	F6:V OUT (COMPOSITE ENC2)	41/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM151


ENC_VIDEO
YC_MIX
PB_L_WFM_RF
PB_R_WFM_RF
PB_L_WFM_ENV
PB_R_WFM_ENV
FROM_TO
R3067 47
R3068 47
R3069 47
R3059 47
R3063 47
CONNECTOR
VIDEO_OUT1
VIDEO_OUT1_G
AGROUND
IC3013
IC3012
IC3015
IC3014
TC7S04FTE85L
AD9300KP
ANALOG_DEVICES
AD9300KP-L
PLCC_20
IN1
GND2
GND1
OUT
BYP
GND3
IN2
GND4
GND5
IN3
PVS
GND9
GND8
OE
A0
GND6
IN4
GND7
NVS
A1
C3456
*PAT
R3565 75
C3457
R3566 75
R3618 PAT
R3619 PAT
C3027 0.1(Z)
C3028 0.01
C3024 0.1(Z)
C3025 0.01
CTL
TIME_CODE
VIDEO_SYNC
WFM_SEL(2:0)
C3022 0.1(Z)
C3023 0.01
R3062 27
VIDEO_OUT2
VIDEO_OUT2_G
R3066 47
R3064 47
R3065 47
R3058 47
C3013 0.1(Z)
C3029 0.1(Z)
C3030 0.01
C3019 0.1(Z)
C3021 0.01
C3018 0.1(Z)
C3020 0.01
R3542 *PAT/J3
R3543 *PAT/J3
P5ENC
P10ENC
REG2
C3016 0.1(Z)
C3017 0.01
R3060 27
VIDEO_OUT3
VIDEO_OUT3_G
CHR_DATA
SYNC_GEN2
CHR_GATE_N
D_IN_BUFF
R3071 820
L3001 18
C3032 39P
C3033 7P
R3070 560
R3072 510
R3061 47
C3026 0.1(Z)
C3014 0.01
C3031 0.1(Z)
C3015 0.01
C3012 0.1(Z)
N10ENC
*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

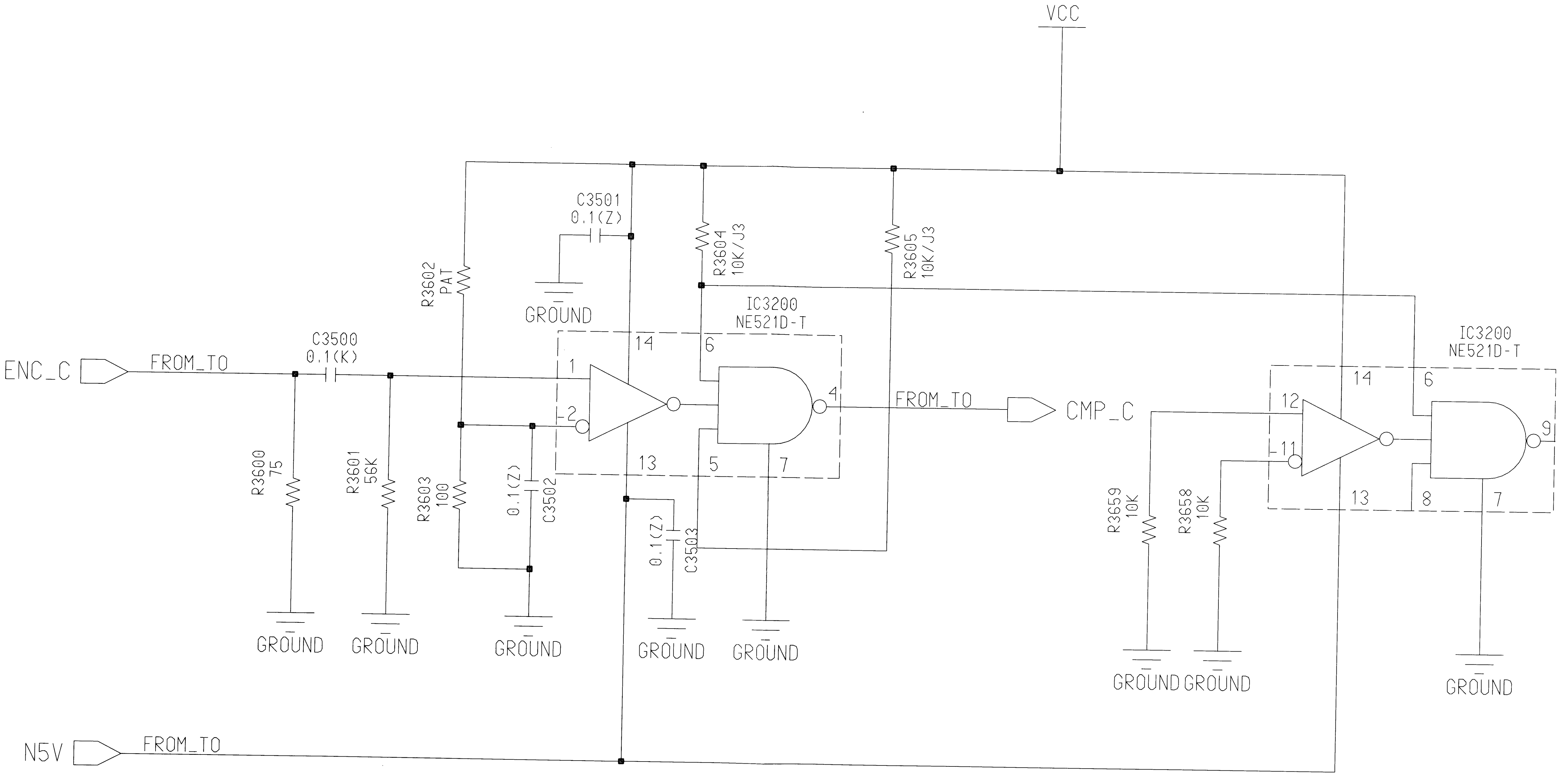
COMPONENT NAME	F6:V OUT (CMPSITE WFM BUGF)	42/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM152


P12V
CONNECTOR
C3204 25V33
C3201 0.1(Z)
AGROUND
AGROUND
IC3091
AN78N10
IN
GND
OUT
C3193 0.1(Z)
16V10 C3194
C3195 0.1(Z)
ANALOG_ENC,etc
P10ENC
AGROUND
P8V
CONNECTOR
C3203 16V47
C3200 0.1(Z)
AGROUND
AGROUND
IC3090
AN78N05
C3196 0.1(Z)
C3197 16V10
C3198 0.1(Z)
ANALOG_ENC,etc
P5ENC1
AGROUND
IC3201
AN78N05
C3510 0.1(Z)
C3511 16V10
C3512 0.1(Z)
ANALOG_ENC,etc
P5ENC2
AGROUND
N12V
CONNECTOR
C3199 25V33
C3202 0.1(Z)
AGROUND
AGROUND
IC3092
AN79N10
C3205 0.1(Z)
C3206 16V10
C3207 0.1(Z)
ANALOG_ENC,etc
N10ENC
AGROUND

*=REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT (REG2 1)	43/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM153

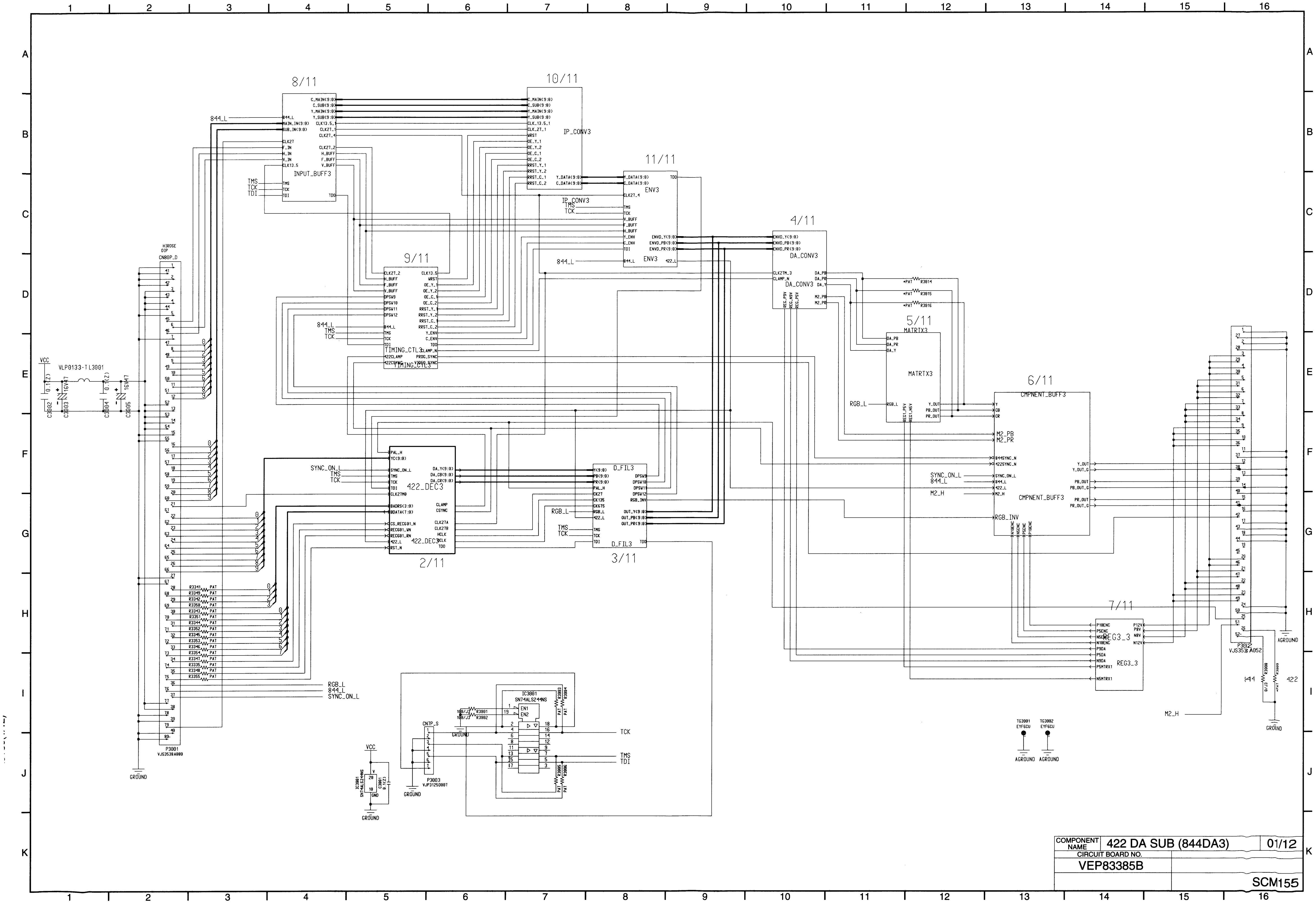
KR3W40(43/44)


VCC
C3501
0.1(Z)
GROUND
R3602
PAT
R3604
10K/J3
R3605
10K/J3
IC3200
NE521D-T
C3500
0.1(K)
ENC_C
FROM_TO
1
2
4
5
6
7
13
14
FROM_TO
CMP_C
R3600
75
R3601
56K
R3603
100
0.1(Z)
C3502
0.1(Z)
C3503
GROUND
GROUND
GROUND
GROUND
GROUND
IC3200
NE521D-T
12
11
14
6
9
13
8
7
R3659
10K
R3658
10K
GROUND GROUND
GROUND
N5V
FROM_TO

*=REFER TO THE COMPARISON CHART

COMPONENT NAME	F6:V OUT (CFDET)	44/44
CIRCUIT BOARD NO.		
VEP83454B		
		SCM154

KR3W40(44/44)

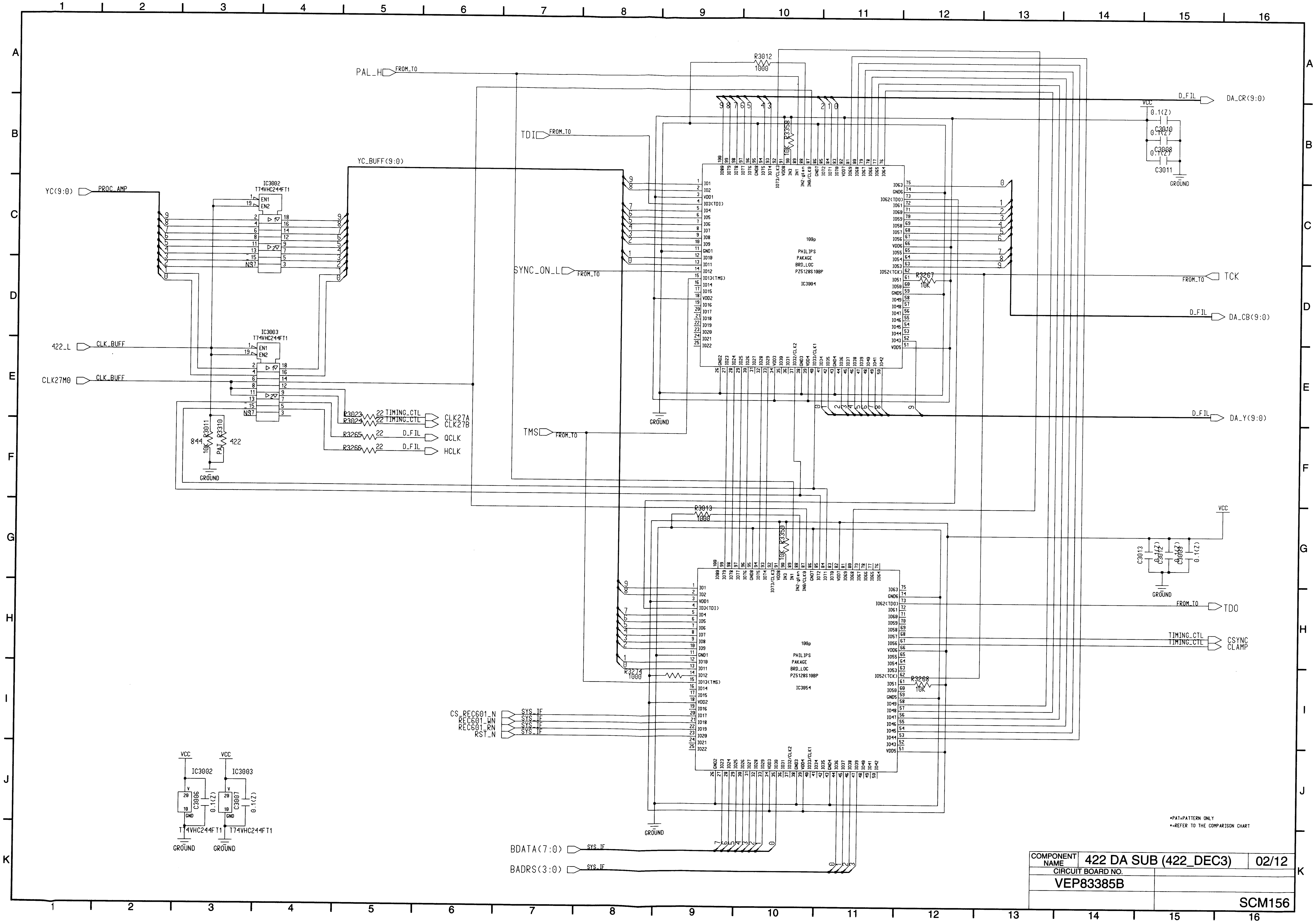

8/11
INPUT_BUFF3
10/11
IP_CONV3
11/11
ENV3
4/11
DA_CONV3
9/11
TIMING_CTL3
5/11
MATRTX3
6/11
CMPNENT_BUFF3
2/11
422_DEC3
3/11
D_FIL3
7/11
REG3_3
CN80P_D
HIROSE DIP
P3001
VJS3538A080
P3002
VJS3538A052
P3003
VJP3125D007
CN7P_S
IC3001
SN74ALS244NS
VCC
VLP0133-TL30G1
C3002
C3003
C3004
C3005
0.1(Z)
16V47
844_L
TMS
TCK
TDI
TDO
SYNC_ON_L
RGB_L
M2_H
TG3001
TG3002
EYF6CU
GROUND
AGROUND
144
422

COMPONENT NAME 422 DA SUB (844DA3) 01/12

CIRCUIT BOARD NO.

VEP83385B

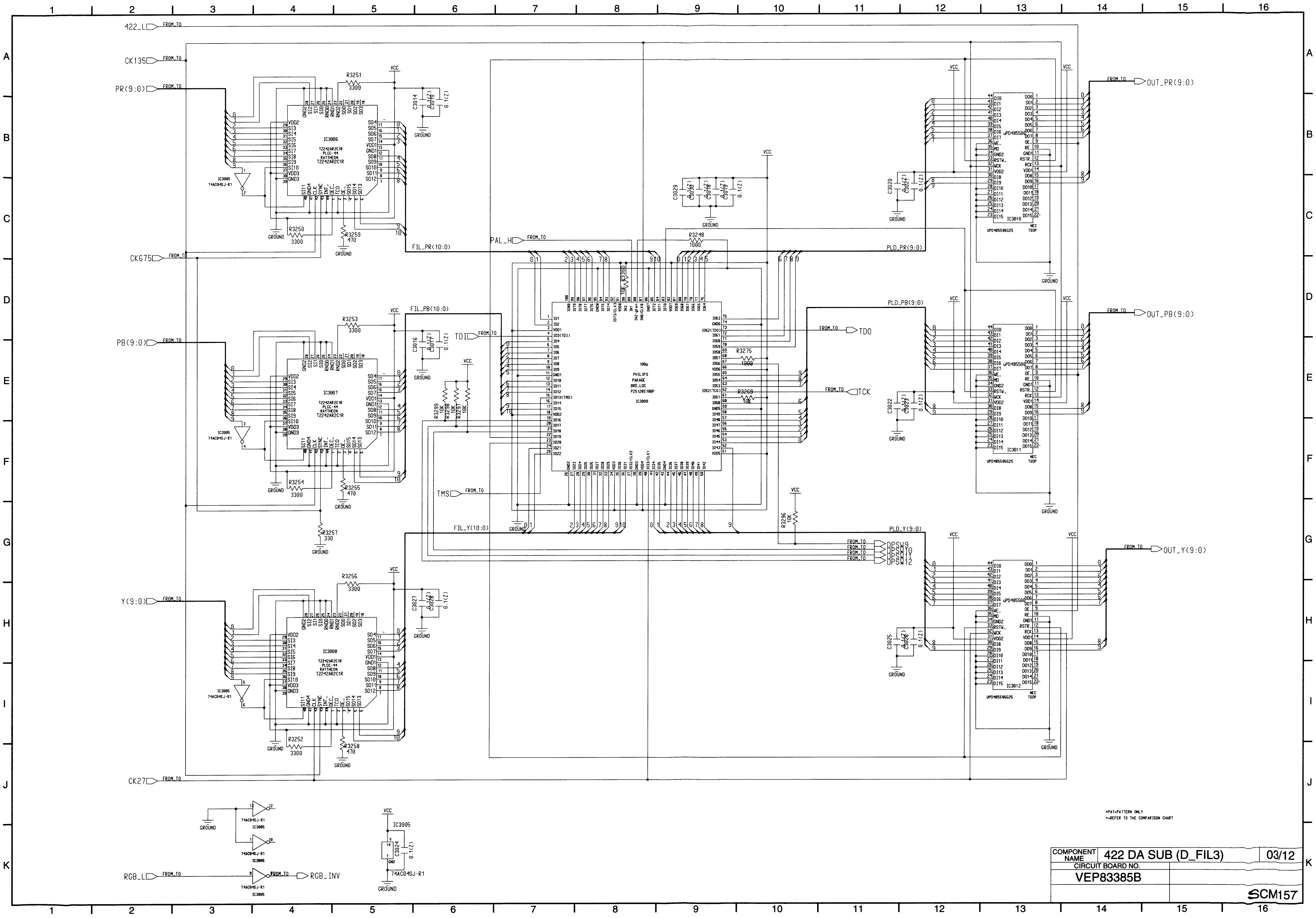
SCM155


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K
PAL_H
FROM_TO
R3012
1000
TDI
FROM_TO
YC_BUFF(9:0)
YC(9:0)
PROC_AMP
IC3002
T74VHC244FT1
EN1
EN2
IC3003
T74VHC244FT1
422_L
CLK_BUFF
CLK27M0
CLK_BUFF
R3023
R3024
22
TIMING_CTL
CLK27A
CLK27B
R3265
22
D_FIL
QCLK
R3266
22
D_FIL
HCLK
R3011
10K
844
R3310
PAT
422
GROUND
SYNC_ON_L
FROM_TO
TMS
FROM_TO
R3358
10K
100p
PHILIPS
PAKAGE
BRD_LOC
PZ5128S10BP
IC3004
R3267
10K
GROUND
D_FIL
DA_CR(9:0)
VCC
0.1(Z)
C3010
C3008
C3011
GROUND
FROM_TO
TCK
D_FIL
DA_CB(9:0)
D_FIL
DA_Y(9:0)
R3013
1000
R3359
10K
100p
PHILIPS
PAKAGE
BRD_LOC
PZ5128S10BP
IC3054
R3274
1000
R3268
10K
VCC
C3013
C3012
C3009
0.1(Z)
GROUND
FROM_TO
TDO
TIMING_CTL
TIMING_CTL
CSYNC
CLAMP
CS_REC601_N
REC601_WN
REC601_RN
RST_N
SYS_IF
GROUND
BDATA(7:0)
SYS_IF
BADRS(3:0)
SYS_IF
VCC
IC3002
C3006
0.1(Z)
T74VHC244FT1
GROUND
VCC
IC3003
C3007
0.1(Z)
T74VHC244FT1
GROUND

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

COMPONENT NAME	422 DA SUB (422_DEC3)	02/12
CIRCUIT BOARD NO.		
VEP83385B		
		SCM156

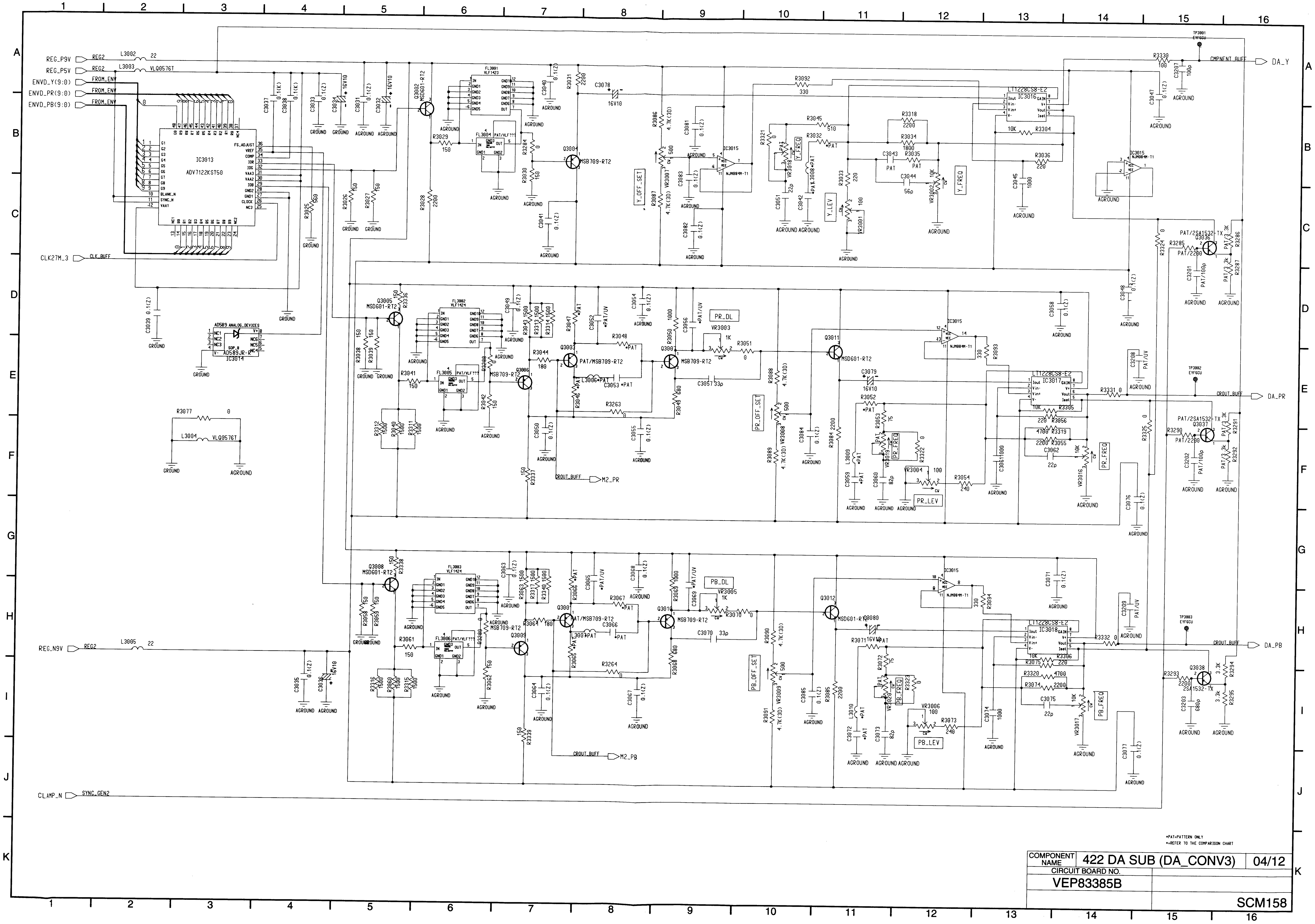
KR3T50(2/12)


422_L
CK135
PR(9:0)
CK675
PB(9:0)
Y(9:0)
CK27
RGB_L
RGB_INV
PAL_H
TDI
TDO
TCK
TMS
FROM_TO
FIL_PR(10:0)
FIL_PB(10:0)
FIL_Y(10:0)
PLD_PR(9:0)
PLD_PB(9:0)
PLD_Y(9:0)
OUT_PR(9:0)
OUT_PB(9:0)
OUT_Y(9:0)
DPSW9
DPSW10
DPSW11
DPSW12
IC3006
IC3007
IC3008
T2242AR2C1R
PLCC-44
RAYTHEON
IC3005
T4AC04SJ-R1
74AC04SJ-R1
IC3009
PHILIPS
PAKAGE
BRD_LOC
PZ5128S10BP
100p
IC3010
IC3011
IC3012
uPD485506G25
NEC
TSOP
R3251
R3250
R3259
R3253
R3254
R3255
R3257
R3256
R3252
R3258
R3248
R3260
R3275
R3269
R3296
R3299
R3298
R3297
3300
470
330
1000
10K
C3014
C3015
C3016
C3017
C3027
C3028
C3029
C3020
C3021
C3022
C3023
C3025
C3026
C3024
0.1(Z)
VCC
GROUND
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

*PAT=PATTERN ONLY

*=REFER TO THE COMPARISON CHART

COMPONENT NAME	422 DA SUB (D_FIL3)	03/12
CIRCUIT BOARD NO.		
VEP83385B		
	SCM157	

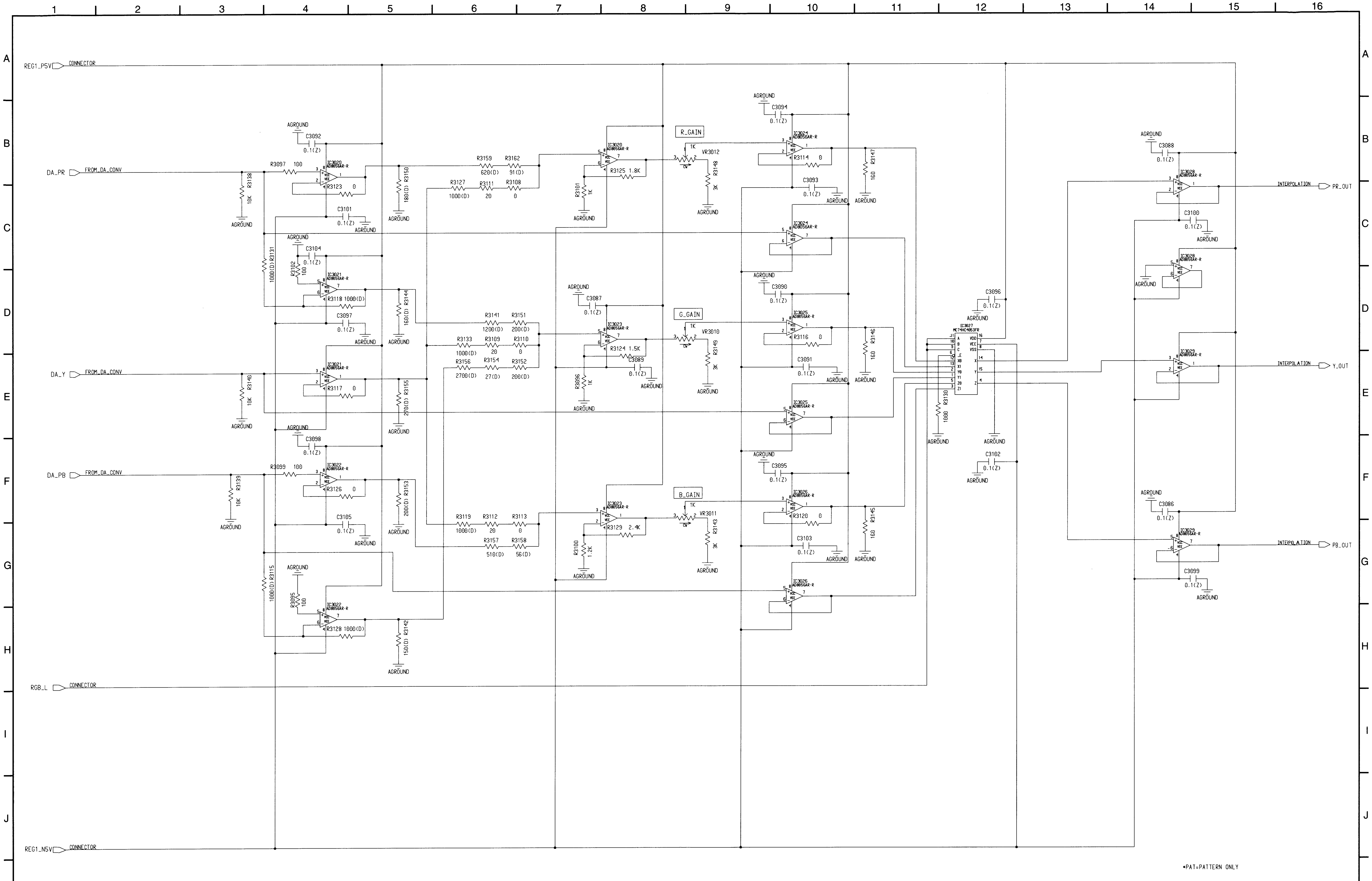

REG_P9V
REG_P5V
ENVD_Y(9:0)
ENVD_PR(9:0)
ENVD_PB(9:0)
FROM_ENV
CLK27M_3
CLK_BUFF
REG_N9V
CLAMP_N
SYNC_GEN2
IC3013
ADV7122KST50
IC3014
AD589JR-R
AD589 ANALOG_DEVICES
FL3001 VLF1423
FL3002 VLF1424
FL3003 VLF1424
Q3002 MSD601-RT2
Q3004 MSB709-RT2
Q3005 MSD601-RT2
Q3008 MSD601-RT2
Q3011 MSD601-RT2
Q3012 MSD601-RT2
IC3015 NJM884M-T1
IC3016 LT1228CS8-E2
IC3017 LT1228CS8-E2
IC3018 LT1228CS8-E2
Q3036 PAT/2SA1532-TX
Q3037 PAT/2SA1532-TX
Q3038 2SA1532-TX
Y_OFF_SET
Y_LEV
Y_FREQ
PR_DL
PR_OFF_SET
PR_FREQ
PR_LEV
PB_DL
PB_OFF_SET
PB_FREQ
PB_LEV
CMPNENT_BUFF
CROUT_BUFF
DA_Y
DA_PR
DA_PB
M2_PR
M2_PB
TP3001 EYF6CU
TP3002 EYF6CU
TP3003 EYF6CU
GROUND
AGROUND

*PAT=PATTERN ONLY

*=REFER TO THE COMPARISON CHART

COMPONENT NAME	422 DA SUB (DA_CONV3)	04/12
CIRCUIT BOARD NO.		
VEP83385B		
	SCM158	

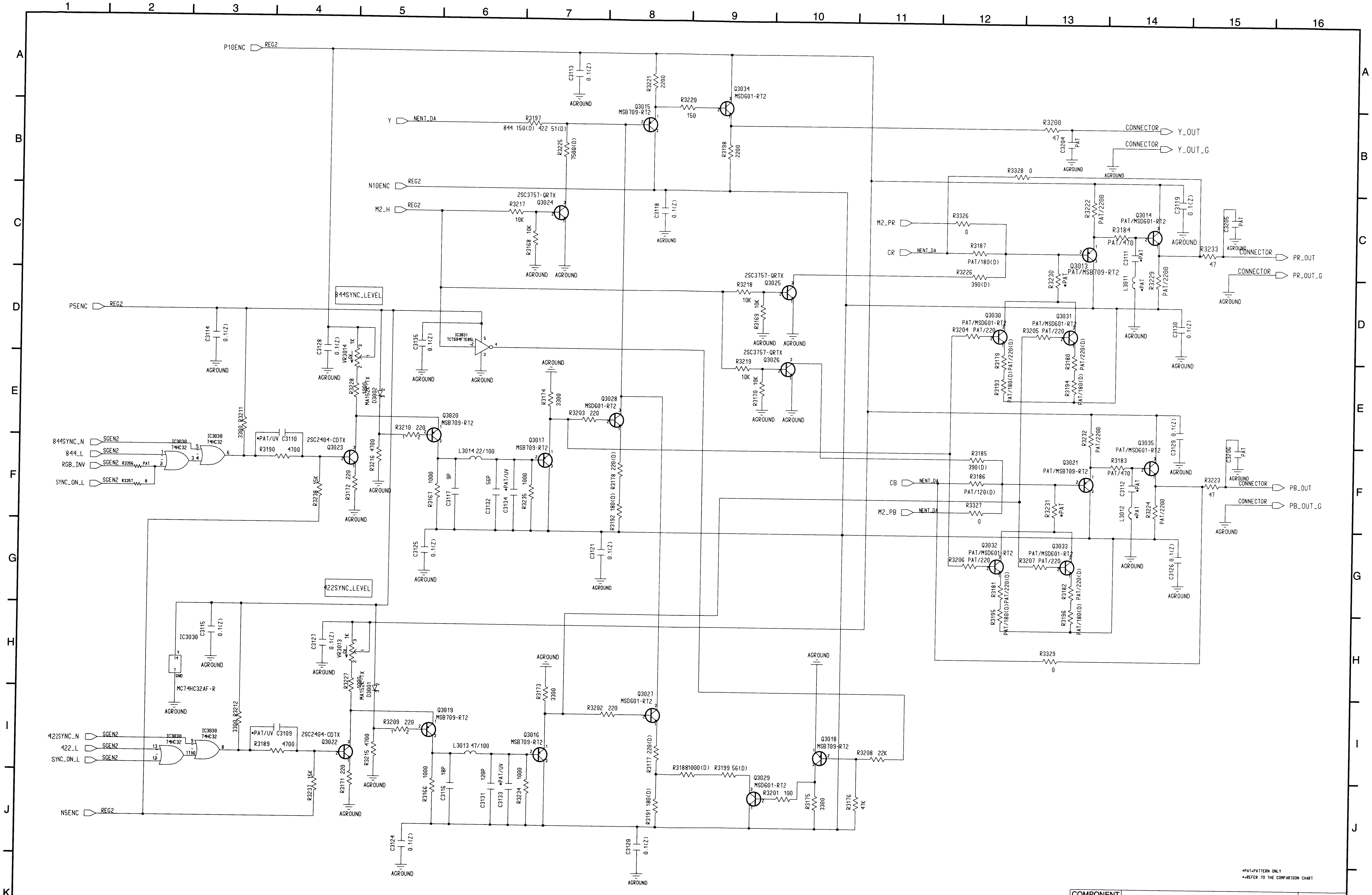
KR3T50(4/12)


REG1_P5V
CONNECTOR
DA_PR
FROM_DA_CONV
DA_Y
FROM_DA_CONV
DA_PB
FROM_DA_CONV
RGB_L
CONNECTOR
REG1_N5V
CONNECTOR
R_GAIN
G_GAIN
B_GAIN
VR3012
VR3010
VR3011
IC3020 AD8056AR-R
IC3021 AD8056AR-R
IC3022 AD8056AR-R
IC3023 AD8056AR-R
IC3024 AD8056AR-R
IC3025 AD8056AR-R
IC3026 AD8056AR-R
IC3027 MC74HC4053FR
IC3028 AD8056AR-R
IC3029 AD8056AR-R
AGROUND
INTERPOLATION
PR_OUT
Y_OUT
PB_OUT

*PAT=PATTERN ONLY

COMPONENT NAME	422 DA SUB (MATRIX3)	05/12
CIRCUIT BOARD NO.		
VEP83385B		
		SCM159

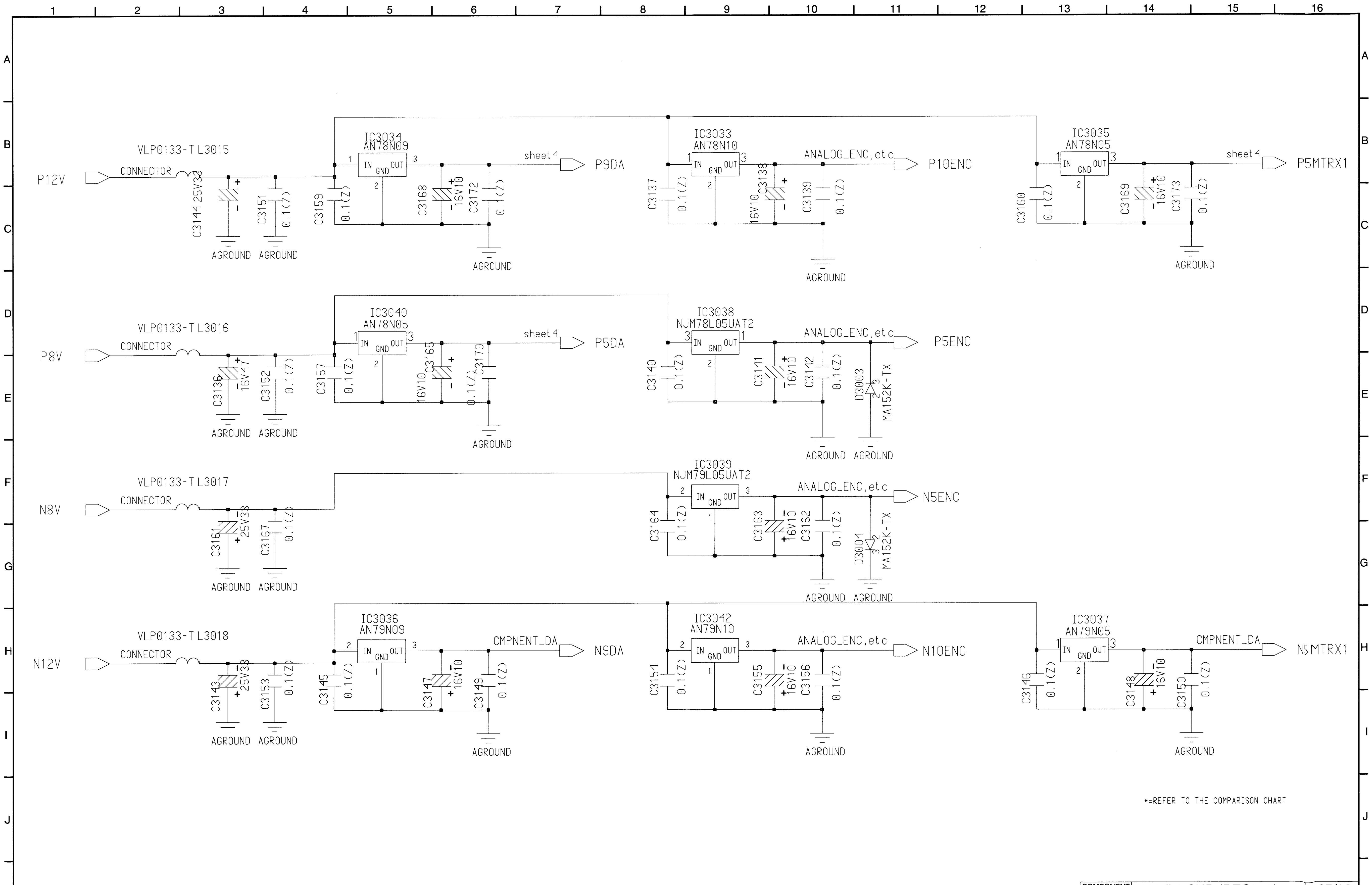
KR3150(5/12)


P10ENC
REG2
Y
NENT_DA
N10ENC
M2_H
P5ENC
844SYNC_LEVEL
422SYNC_LEVEL
844SYNC_N
844_L
RGB_INV
SYNC_ON_L
SGEN2
422SYNC_N
422_L
N5ENC
IC3030 74HC32
IC3031 TC7S04FTE85L
MC74HC32AF-R
Q3015 MSB709-RT2
Q3034 MSD601-RT2
Q3024 2SC3757-QRTX
Q3025 2SC3757-QRTX
Q3026 2SC3757-QRTX
Q3020 MSB709-RT2
Q3023 2SC2404-CDTX
Q3017 MSB709-RT2
Q3028 MSD601-RT2
Q3019 MSB709-RT2
Q3022 2SC2404-CDTX
Q3016 MSB709-RT2
Q3027 MSD601-RT2
Q3029 MSD601-RT2
Q3018 MSB709-RT2
Q3013 PAT/MSB709-RT2
Q3014 PAT/MSD601-RT2
Q3030 PAT/MSD601-RT2
Q3031 PAT/MSD601-RT2
Q3021 PAT/MSB709-RT2
Q3035 PAT/MSD601-RT2
Q3032 PAT/MSD601-RT2
Q3033 PAT/MSD601-RT2
D3902 MA152WK
D3901 MA152WK
VR3014 1K
VR3013 1K
L3014 22/100
L3013 47/100
L3011
L3012
AGROUND
CONNECTOR
Y_OUT
Y_OUT_G
M2_PR
CR
PR_OUT
PR_OUT_G
CB
M2_PB
PB_OUT
PB_OUT_G
R3200 47
R3328 0
R3329 0
R3233 47
R3223 47
R3208 22K
*PAT/UV
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

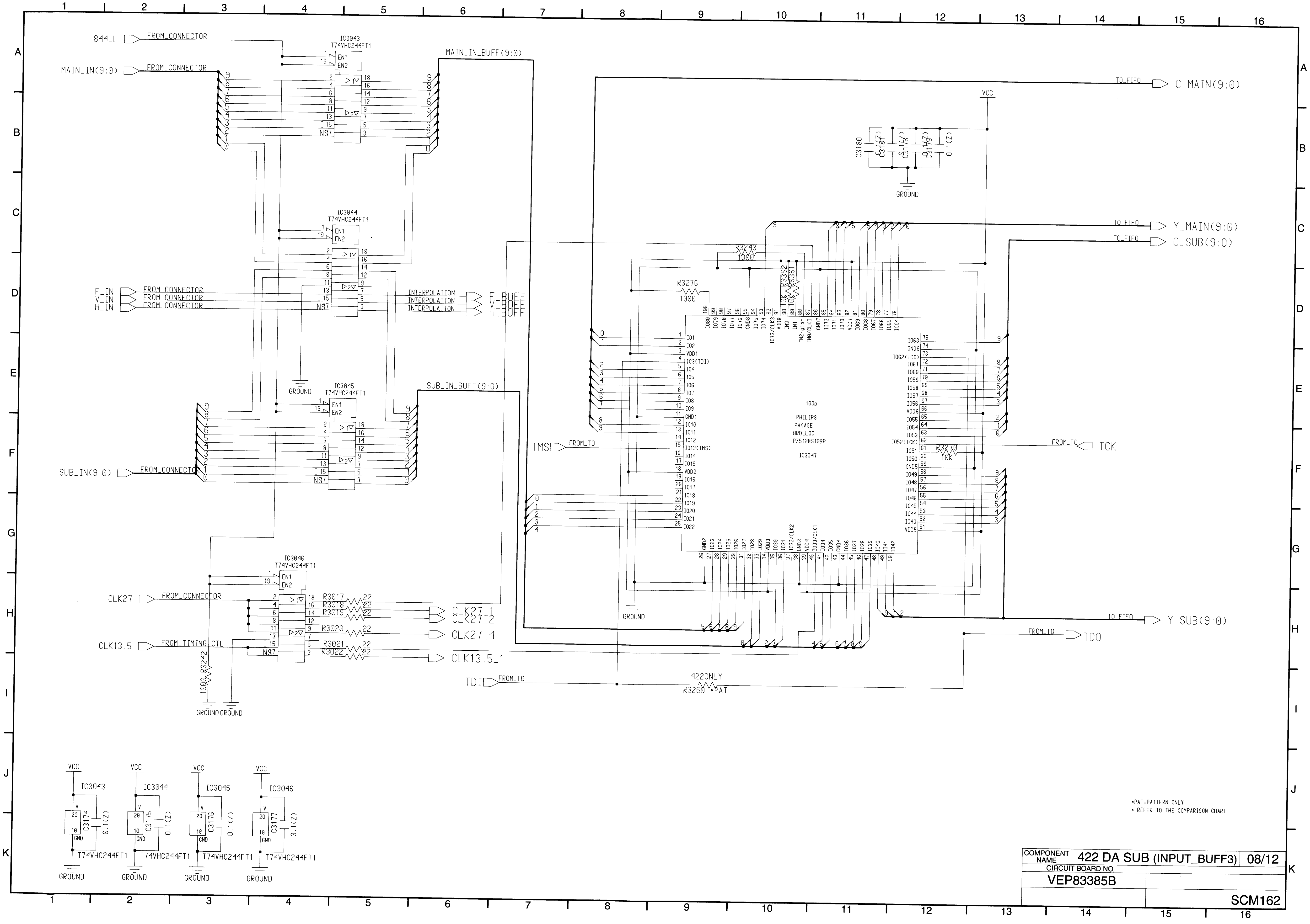
COMPONENT NAME	422 DA SUB (CMPNENT_BUFF3)	06/12
CIRCUIT BOARD NO.		
VEP83385B		
		SCM160

KR3T50(6/12)


P12V
VLP0133-T L3015
CONNECTOR
C3144 25V33
C3151 0.1(Z)
AGROUND
AGROUND
IC3034
AN78N09
IN GND OUT
C3159 0.1(Z)
C3168 16V10
C3172 0.1(Z)
AGROUND
sheet 4
P9DA
IC3033
AN78N10
C3137 0.1(Z)
16V10 C3138
C3139 0.1(Z)
ANALOG_ENC,etc
P10ENC
AGROUND
IC3035
AN78N05
C3160 0.1(Z)
C3169 16V10
C3173 0.1(Z)
sheet 4
P5MTRX1
AGROUND
P8V
VLP0133-T L3016
CONNECTOR
C3136 16V47
C3152 0.1(Z)
AGROUND
AGROUND
IC3040
AN78N05
C3157 0.1(Z)
16V10 C3165
C3170 0.1(Z)
AGROUND
sheet 4
P5DA
IC3038
NJM78L05UAT2
C3140 0.1(Z)
C3141 16V10
C3142 0.1(Z)
D3003 MA152K-TX
ANALOG_ENC,etc
P5ENC
AGROUND
AGROUND
N8V
VLP0133-T L3017
CONNECTOR
C3161 25V33
C3167 0.1(Z)
AGROUND
AGROUND
IC3039
NJM79L05UAT2
C3164 0.1(Z)
C3163 16V10
C3162 0.1(Z)
D3004 MA152K-TX
ANALOG_ENC,etc
N5ENC
AGROUND
AGROUND
N12V
VLP0133-T L3018
CONNECTOR
C3143 25V33
C3153 0.1(Z)
AGROUND
AGROUND
IC3036
AN79N09
C3145 0.1(Z)
C3147 16V10
C3149 0.1(Z)
CMPNENT_DA
N9DA
AGROUND
IC3042
AN79N10
C3154 0.1(Z)
C3155 16V10
C3156 0.1(Z)
ANALOG_ENC,etc
N10ENC
AGROUND
IC3037
AN79N05
C3146 0.1(Z)
C3148 16V10
C3150 0.1(Z)
CMPNENT_DA
N5MTRX1
AGROUND

*=REFER TO THE COMPARISON CHART

COMPONENT NAME	422 DA SUB (REG3_3)	07/12
CIRCUIT BOARD NO.		
VEP83385B		
		SCM161

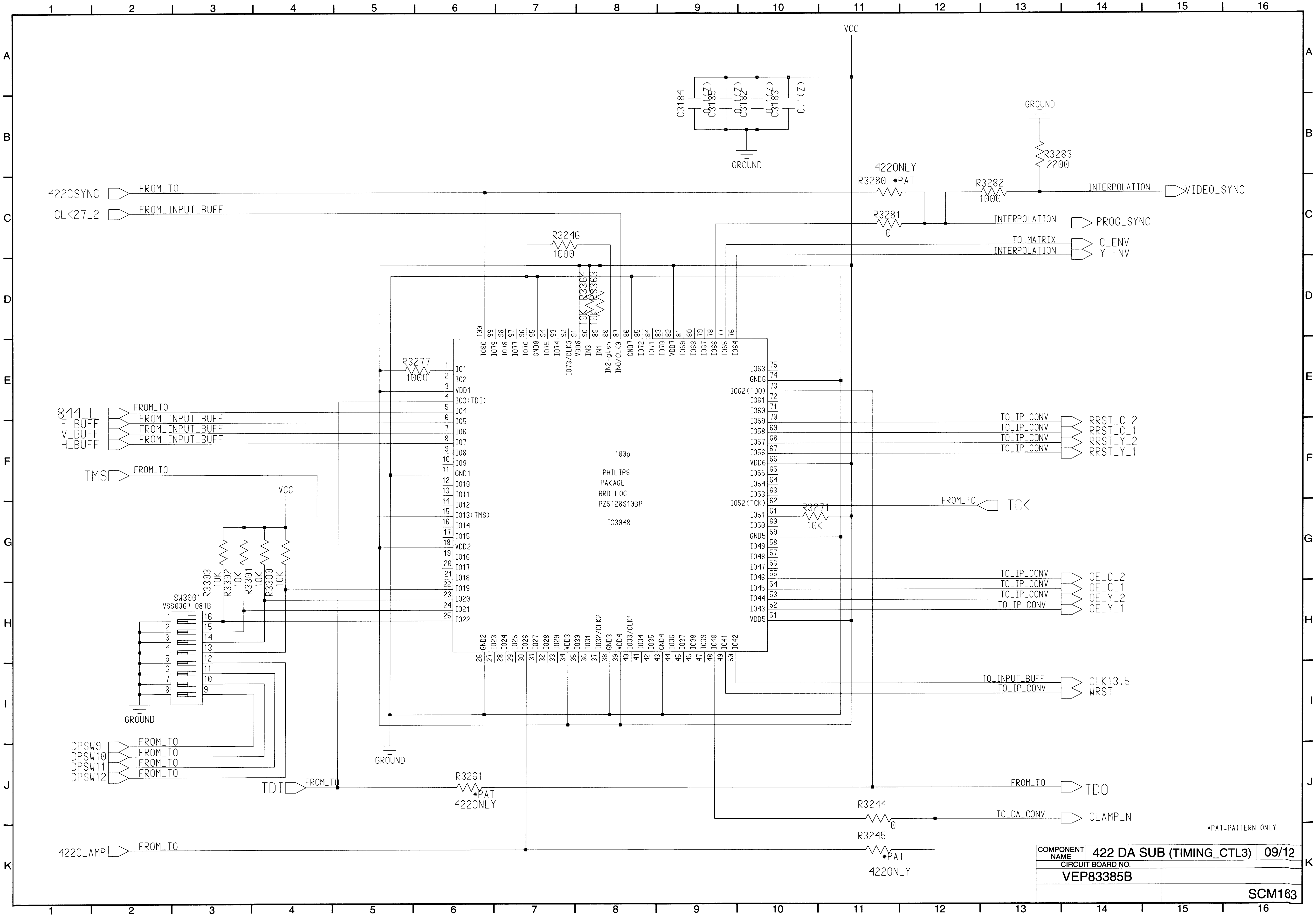

844_L
FROM_CONNECTOR
MAIN_IN(9:0)
FROM_CONNECTOR
IC3043
T74VHC244FT1
MAIN_IN_BUFF(9:0)
IC3044
T74VHC244FT1
F_IN
V_IN
H_IN
FROM CONNECTOR
INTERPOLATION
F_BUFF
V_BUFF
H_BUFF
GROUND
IC3045
T74VHC244FT1
SUB_IN_BUFF(9:0)
SUB_IN(9:0)
IC3046
T74VHC244FT1
CLK27
CLK13.5
FROM_TIMING_CTL
R3017 22
R3018 22
R3019 22
R3020 22
R3021 22
R3022 22
CLK27_1
CLK27_2
CLK27_4
CLK13.5_1
R3242
1000
GROUND GROUND
TMS
FROM_TO
TDI
4220NLY
R3260 *PAT
TO_FIFO
C_MAIN(9:0)
VCC
C3180
C3181
C3178
C3179
0.1(Z)
Y_MAIN(9:0)
C_SUB(9:0)
R3243
1000
R3276
1000
R3362
R3361
10K
100p
PHILIPS
PAKAGE
BRD_LOC
PZ5128S10BP
IC3047
R3270
10K
TCK
Y_SUB(9:0)
TDO
VCC
IC3043
IC3044
IC3045
IC3046
C3174
C3175
C3176
C3177
0.1(Z)
T74VHC244FT1
GROUND

*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART

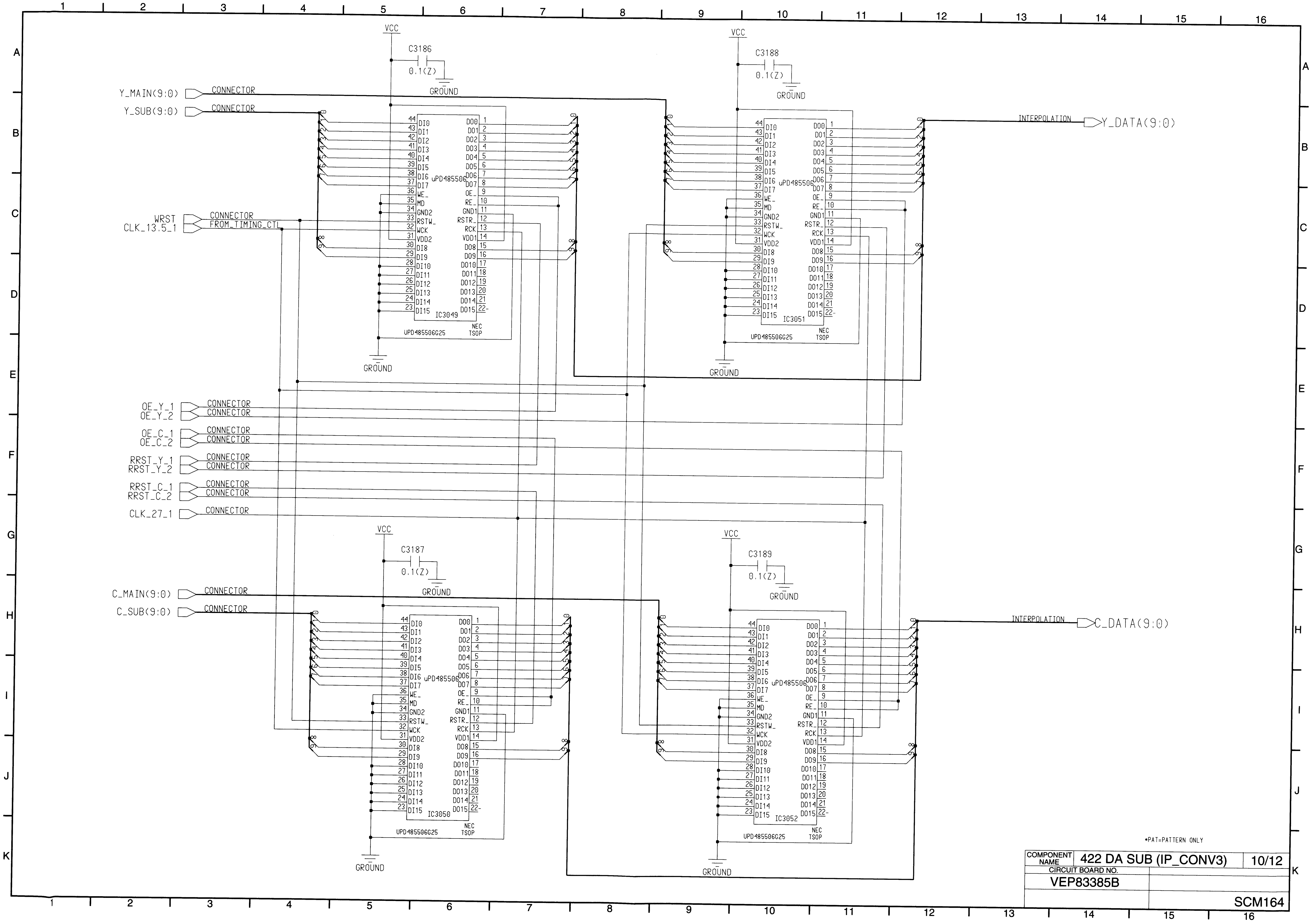
COMPONENT NAME	422 DA SUB (INPUT_BUFF3)	08/12
CIRCUIT BOARD NO.		
VEP83385B		
		SCM162

KR3T50(8/12)

KR3T50(9/12)


VCC
C3184
C3185
C3182
C3183
0.1(Z)
GROUND
R3283
2200
4220NLY
R3280 *PAT
R3282
1000
INTERPOLATION
VIDEO_SYNC
422CSYNC
FROM_TO
CLK27_2
FROM_INPUT_BUFF
R3281
0
PROG_SYNC
TO_MATRIX
C_ENV
Y_ENV
R3246
1000
R3364
R3363
10K
R3277
1000
844_L
F_BUFF
V_BUFF
H_BUFF
TMS
100p
PHILIPS
PAKAGE
BRD_LOC
PZ5128S10BP
IC3048
TO_IP_CONV
RRST_C_2
RRST_C_1
RRST_Y_2
RRST_Y_1
R3271
10K
TCK
OE_C_2
OE_C_1
OE_Y_2
OE_Y_1
TO_INPUT_BUFF
CLK13.5
WRST
R3303
R3302
R3301
R3300
SW3001
VSS0367-08TB
DPSW9
DPSW10
DPSW11
DPSW12
TDI
R3261
*PAT
4220NLY
TDO
R3244
0
TO_DA_CONV
CLAMP_N
R3245
*PAT
422CLAMP
*PAT=PATTERN ONLY
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

COMPONENT NAME	422 DA SUB (TIMING_CTL3)	09/12
CIRCUIT BOARD NO.		
VEP83385B		
		SCM163


Y_MAIN(9:0)
Y_SUB(9:0)
WRST
CLK_13.5_1
CONNECTOR
FROM_TIMING_CTL
OE_Y_1
OE_Y_2
OE_C_1
OE_C_2
RRST_Y_1
RRST_Y_2
RRST_C_1
RRST_C_2
CLK_27_1
C_MAIN(9:0)
C_SUB(9:0)
VCC
GROUND
C3186
C3187
C3188
C3189
0.1(Z)
IC3049
IC3050
IC3051
IC3052
uPD485506
UPD485506G25
NEC
TSOP
DI0
DI1
DI2
DI3
DI4
DI5
DI6
DI7
WE_
MD
GND2
RSTW_
WCK
VDD2
DI8
DI9
DI10
DI11
DI12
DI13
DI14
DI15
DO0
DO1
DO2
DO3
DO4
DO5
DO6
DO7
OE_
RE_
GND1
RSTR_
RCK
VDD1
DO8
DO9
DO10
DO11
DO12
DO13
DO14
DO15
INTERPOLATION
Y_DATA(9:0)
C_DATA(9:0)
*PAT=PATTERN ONLY
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

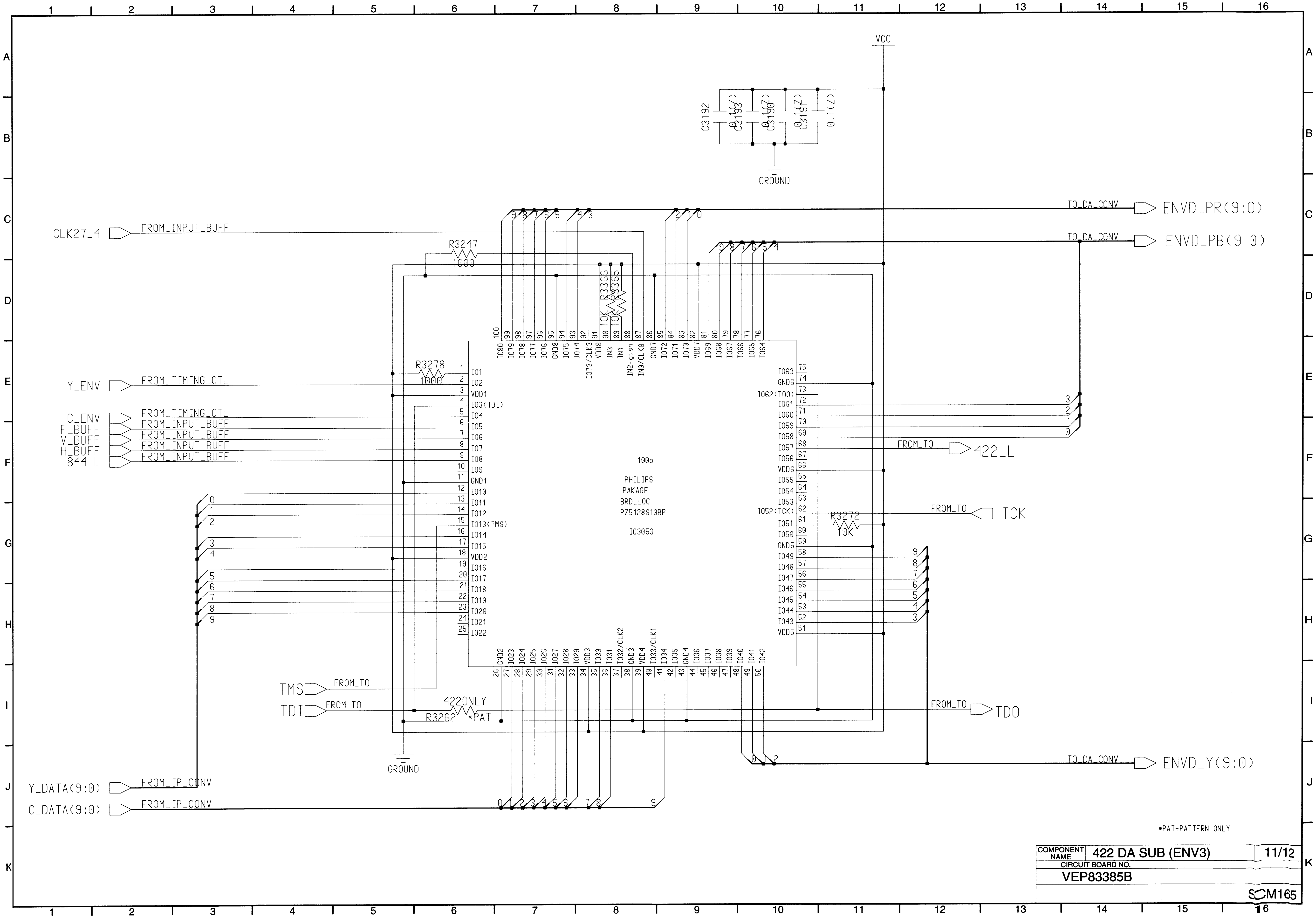
COMPONENT NAME 422 DA SUB (IP_CONV3) 10/12

CIRCUIT BOARD NO.

VEP83385B

SCM164

KR3T50(10/12)


VCC
C3192
C3193
C3190
C3191
0.1(Z)
GROUND
CLK27_4
FROM_INPUT_BUFF
R3247
1000
R3366
R3365
10K
TO_DA_CONV
ENVD_PR(9:0)
ENVD_PB(9:0)
Y_ENV
FROM_TIMING_CTL
R3278
1000
C_ENV
F_BUFF
V_BUFF
H_BUFF
844_L
100p
PHILIPS
PAKAGE
BRD_LOC
PZ5128S10BP
IC3053
IO1
IO2
VDD1
IO3(TDI)
IO4
IO5
IO6
IO7
IO8
IO9
GND1
IO10
IO11
IO12
IO13(TMS)
IO14
IO15
VDD2
IO16
IO17
IO18
IO19
IO20
IO21
IO22
IO80
IO79
IO78
IO77
IO76
GND8
IO75
IO74
IO73/CLK3
VDD8
IN3
IN1
IN2-gtsn
IN0/CLK0
GND7
IO72
IO71
IO70
VDD7
IO69
IO68
IO67
IO66
IO65
IO64
IO63
GND6
IO62(TDO)
IO61
IO60
IO59
IO58
IO57
IO56
VDD6
IO55
IO54
IO53
IO52(TCK)
IO51
IO50
GND5
IO49
IO48
IO47
IO46
IO45
IO44
IO43
VDD5
GND2
IO23
IO24
IO25
IO26
IO27
IO28
IO29
VDD3
IO30
IO31
IO32/CLK2
GND3
VDD4
IO33/CLK1
IO34
IO35
GND4
IO36
IO37
IO38
IO39
IO40
IO41
IO42
FROM_TO
422_L
TCK
R3272
10K
TMS
TDI
4220NLY
R3262
*PAT
TDO
ENVD_Y(9:0)
Y_DATA(9:0)
FROM_IP_CONV
C_DATA(9:0)
*PAT=PATTERN ONLY

COMPONENT NAME	422 DA SUB (ENV3)	11/12
CIRCUIT BOARD NO.		
VEP83385B		

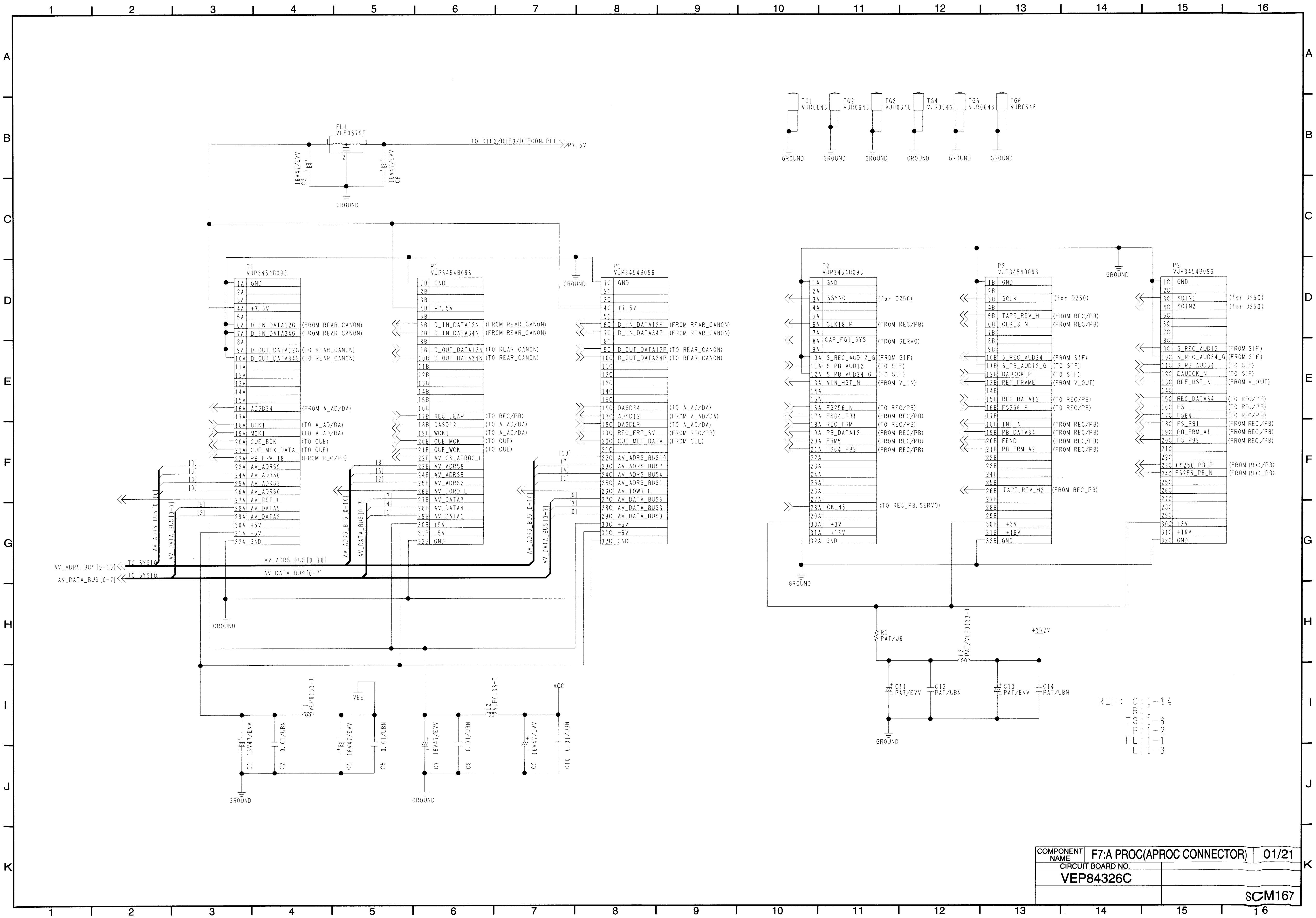
SCM165

KR3T50(11/12)

Ref No.	AJ-D940
C3086	------
C3087	------
C3088	------
C3089	------
C3090	------
C3091	------
C3092	------
C3093	------
C3094	------
C3095	------
C3096	------
C3097	------
C3098	------
C3099	------
C3100	------
C3101	------
C3102	------
C3103	------
C3104	------
C3105	------
C3114	------
C3117	------
C3121	------
C3125	------
C3128	------
C3132	------
C3174	------
C3175	------
C3176	------
C3177	------
C3178	------
C3179	------
C3180	------
C3181	------
C3182	------
C3183	------
C3184	------
C3185	------
C3186	------
C3187	------
C3188	------
C3189	------
C3190	------
C3191	------
C3192	------
C3193	------
D3002	------
IC3020	------
IC3021	------
IC3022	------
IC3023	------
IC3024	------
IC3025	------
IC3026	------
IC3027	------
IC3028	------
IC3029	------
IC3035	------
IC3037	------
IC3043	------
IC3044	------
IC3045	------
IC3046	------
IC3047	------
IC3048	------
IC3049	------
IC3050	------
IC3051	------
IC3052	------
IC3053	------
L3014	------
Q3017	------
Q3020	------
Q3023	------
Q3028	------
R3008	------
R3009	ERJ3GEY0R00V
R3011	------
R3014	ERJ3GEY0R00V
R3015	ERJ3GEY0R00V
R3016	ERJ3GEY0R00V
R3017	------
R3018	------
R3019	------
R3020	------
R3021	------
R3022	------
R3095	------
R3096	------
R3097	------
R3099	------
R3100	------
R3101	------
R3102	------
R3108	------
R3109	------
R3110	------
R3111	------
R3112	------
R3113	------
R3114	------
R3115	------
R3116	------
R3117	------
R3118	------
R3119	------
R3120	------
R3123	------
R3124	------
R3125	------
R3126	------
R3127	------
R3128	------
R3129	------
R3130	------
R3131	------
R3133	------
R3138	------
R3139	------
R3140	------
R3141	------
R3142	------
R3143	------
R3144	------
R3145	------
R3146	------
R3147	------
R3148	------
R3149	------
R3150	------
R3151	------
R3152	------
R3153	------
R3154	------
R3155	------
R3156	------
R3157	------
R3158	------
R3159	------
R3162	------
R3167	------
R3172	------
R3174	------
R3178	------
R3190	------
R3192	------
R3197	ERJ6RED510V
R3203	------
R3210	------
R3211	------
R3216	------
R3228	------
R3235	------
R3238	------
R3242	------
R3243	------
R3244	------
R3245	ERJ3GEY0R00V
R3246	------
R3247	------
R3260	ERJ3GEY0R00V
R3261	ERJ3GEY0R00V
R3262	ERJ3GEY0R00V
R3270	------
R3271	------
R3272	------
R3276	------
R3277	------
R3278	------
R3280	ERJ3GEY0R00V
R3281	------
R3283	ERJ3GEYJ121V
R3300	------
R3301	------
R3302	------
R3303	------
R3310	ERJ3GEY0R00V
R3361	------
R3362	------
R3363	------
R3364	------
R3365	------
R3366	------
VR3010	------
VR3011	------
VR3012	------
VR3014	------

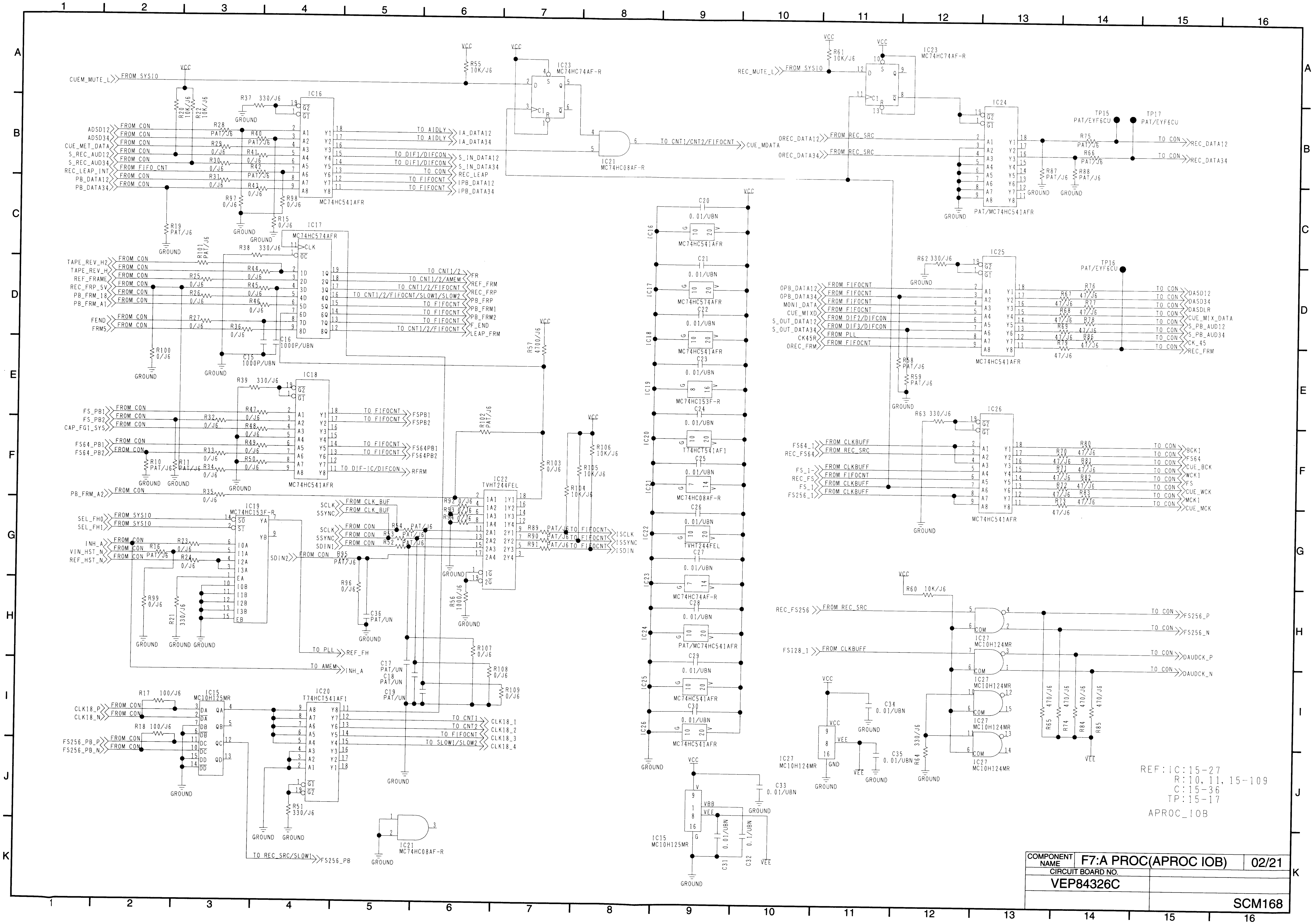
COMPONENT NAME	422 DA SUB	12/12
CIRCUIT BOARD NO.		
VEP83385B		
		SCM166

KR3T50(12/12)


FL1
VLF0576T
TO DIF2/DIF3/DIFCON PLL
P7.5V
16V47/EVV
C3
C6
GROUND
TG1 VJR0646
TG2 VJR0646
TG3 VJR0646
TG4 VJR0646
TG5 VJR0646
TG6 VJR0646
P1
VJP3454B096
1A GND
4A +7.5V
6A D_IN_DATA12G (FROM REAR_CANON)
7A D_IN_DATA34G (FROM REAR_CANON)
9A D_OUT_DATA12G (TO REAR_CANON)
10A D_OUT_DATA34G (TO REAR_CANON)
16A ADSD34 (FROM A_AD/DA)
18A BCK1 (TO A_AD/DA)
19A MCK1 (TO A_AD/DA)
20A CUE_BCK (TO CUE)
21A CUE_MIX_DATA (TO CUE)
22A PB_FRM_18 (FROM REC/PB)
23A AV_ADRS9
24A AV_ADRS6
25A AV_ADRS3
26A AV_ADRS0
27A AV_RST_L
28A AV_DATA5
29A AV_DATA2
30A +5V
31A -5V
32A GND
1B GND
4B +7.5V
6B D_IN_DATA12N (FROM REAR_CANON)
7B D_IN_DATA34N (FROM REAR_CANON)
9B D_OUT_DATA12N (TO REAR_CANON)
10B D_OUT_DATA34N (TO REAR_CANON)
17B REC_LEAP (TO REC/PB)
18B DASD12 (TO A_AD/DA)
19B WCK1 (TO A_AD/DA)
20B CUE_MCK (TO CUE)
21B CUE_WCK (TO CUE)
22B AV_CS_APROC_L
23B AV_ADRS8
24B AV_ADRS5
25B AV_ADRS2
26B AV_IORD_L
27B AV_DATA7
28B AV_DATA4
29B AV_DATA1
30B +5V
31B -5V
32B GND
1C GND
4C +7.5V
6C D_IN_DATA12P (FROM REAR_CANON)
7C D_IN_DATA34P (FROM REAR_CANON)
9C D_OUT_DATA12P (TO REAR_CANON)
10C D_OUT_DATA34P (TO REAR_CANON)
16C DASD34 (TO A_AD/DA)
17C ADSD12 (FROM A_AD/DA)
18C DASDLR (TO A_AD/DA)
19C REC_FRP_5V (FROM REC/PB)
20C CUE_MET_DATA (FROM CUE)
22C AV_ADRS_BUS10
23C AV_ADRS_BUS7
24C AV_ADRS_BUS4
25C AV_ADRS_BUS1
26C AV_IOWR_L
27C AV_DATA_BUS6
28C AV_DATA_BUS3
29C AV_DATA_BUS0
30C +5V
31C -5V
32C GND
AV_ADRS_BUS[0-10]
AV_DATA_BUS[0-7]
AV_ADRS_BUS[0-10] TO SYSIO
AV_DATA_BUS[0-7] TO SYSIO
L1 VLP0133-T
L2 VLP0133-T
VEE
VCC
C1 16V47/EVV
C2 0.01/UBN
C4 16V47/EVV
C5 0.01/UBN
C7 16V47/EVV
C8 0.01/UBN
C9 16V47/EVV
C10 0.01/UBN
P2
VJP3454B096
1A GND
3A SSYNC (for D250)
6A CLK18_P (FROM REC/PB)
8A CAP_FG1_SYS (FROM SERVO)
10A S_REC_AUD12_G (FROM SIF)
11A S_PB_AUD12 (TO SIF)
12A S_PB_AUD34_G (TO SIF)
13A VIN_HST_N (FROM V_IN)
15A FS256_N (TO REC/PB)
17A FS64_PB1 (FROM REC/PB)
18A REC_FRM (TO REC/PB)
19A PB_DATA12 (FROM REC/PB)
20A FRM5 (FROM REC/PB)
21A FS64_PB2 (FROM REC/PB)
28A CK_45 (TO REC_PB, SERVO)
30A +3V
31A +16V
32A GND
1B GND
3B SCLK (for D250)
5B TAPE_REV_H (FROM REC/PB)
6B CLK18_N (FROM REC/PB)
10B S_REC_AUD34 (FROM SIF)
11B S_PB_AUD12_G (TO SIF)
12B DAUDCK_P (TO SIF)
13B REF_FRAME (FROM V_OUT)
15B REC_DATA12 (TO REC/PB)
16B FS256_P (TO REC/PB)
18B INH_A (FROM REC/PB)
19B PB_DATA34 (FROM REC/PB)
20B FEND (FROM REC/PB)
21B PB_FRM_A2 (FROM REC/PB)
26B TAPE_REV_H2 (FROM REC_PB)
30B +3V
31B +16V
32B GND
1C GND
3C SDIN1 (for D250)
4C SDIN2 (for D250)
9C S_REC_AUD12 (FROM SIF)
10C S_REC_AUD34_G (FROM SIF)
11C S_PB_AUD34 (TO SIF)
12C DAUDCK_N (TO SIF)
13C REF_HST_N (FROM V_OUT)
15C REC_DATA34 (TO REC/PB)
16C FS (TO REC/PB)
17C FS64 (TO REC/PB)
18C FS_PB1 (FROM REC/PB)
19C PB_FRM_A1 (FROM REC/PB)
20C FS_PB2 (FROM REC/PB)
23C FS256_PB_P (FROM REC/PB)
24C FS256_PB_N (FROM REC_PB)
30C +3V
31C +16V
32C GND
R1 PAT/J6
L3 PAT/VLP0133-T
+3R2V
C11 PAT/EVV
C12 PAT/UBN
C13 PAT/EVV
C14 PAT/UBN
REF: C:1-14
R:1
TG:1-6
P:1-2
FL:1-1
L:1-3

COMPONENT NAME	F7:A PROC(APROC CONNECTOR)	01/21
CIRCUIT BOARD NO.		
VEP84326C		
		SCM167

KR4H44(1/21)

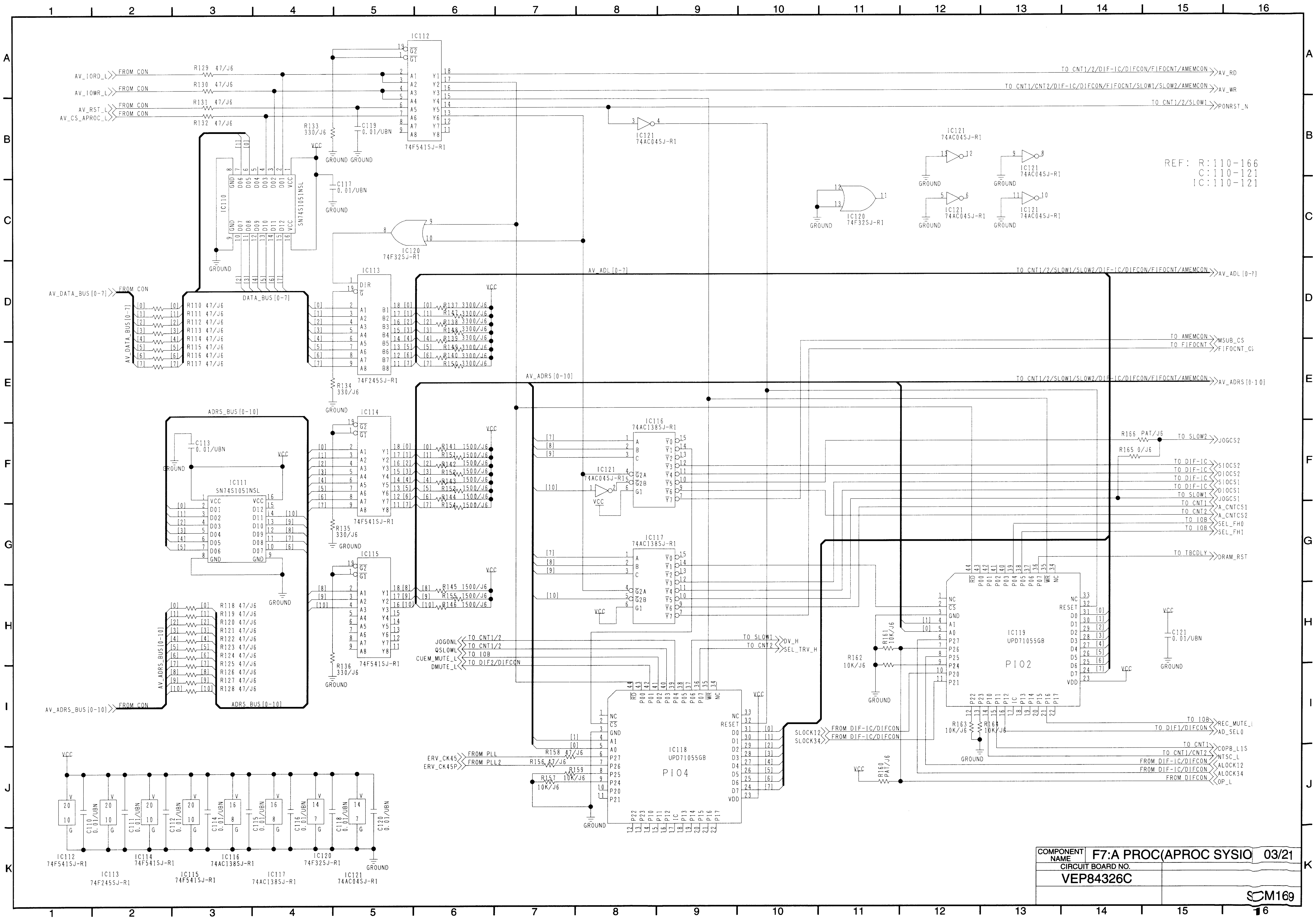

IC16 MC74HC541AFR
IC17 MC74HC574AFR
IC18 MC74HC541AFR
IC19 MC74HC153F-R
IC20 T74HCT541AF1
IC21 MC74HC08AF-R
IC22 TVHT244FEL
IC23 MC74HC74AF-R
IC24 PAT/MC74HC541AFR
IC25 MC74HC541AFR
IC26 MC74HC541AFR
IC27 MC10H124MR
IC15 MC10H125MR
CUEM_MUTE_L
REC_MUTE_L
CUE_MDATA
ADSD12
ADSD34
CUE_MET_DATA
S_REC_AUD12
S_REC_AUD34
REC_LEAP_INT
PB_DATA12
PB_DATA34
IA_DATA12
IA_DATA34
S_IN_DATA12
S_IN_DATA34
REC_LEAP
IPB_DATA12
IPB_DATA34
OREC_DATA12
OREC_DATA34
REC_DATA12
REC_DATA34
TAPE_REV_H2
TAPE_REV_H
REF_FRAME
REC_FRP_5V
PB_FRM_18
PB_FRM_A1
FEND
FRMS
FR
REF_FRM
REC_FRP
PB_FRP
PB_FRM1
PB_FRM2
F_END
LEAP_FRM
OPB_DATA12
OPB_DATA34
MONI_DATA
CUE_MIXD
S_OUT_DATA12
S_OUT_DATA34
CK45R
OREC_FRM
DASD12
DASD34
DASDLR
CUE_MIX_DATA
S_PB_AUD12
S_PB_AUD34
CK_45
REC_FRM
FS_PB1
FS_PB2
CAP_FG1_SYS
FS64_PB1
FS64_PB2
FSPB1
FSPB2
FS64PB1
FS64PB2
RFRM
PB_FRM_A2
SEL_FH0
SEL_FH1
INH_A
VIN_HST_N
REF_HST_N
SDIN2
SCLK
SSYNC
SDIN1
ISCLK
ISSYNC
ISDIN
REF_FH
INH_A
F564_1
REC_FS64
FS_1
REC_FS
FS256_1
BCK1
FS64
CUE_BCK
WCK1
FS
CUE_WCK
MCK1
CUE_MCK
REC_FS256
FS256_P
FS256_N
FS128_1
DAUDCK_P
DAUDCK_N
CLK18_P
CLK18_N
F5256_PB_P
F5256_PB_N
CLK18_1
CLK18_2
CLK18_3
CLK18_4
F5256_PB
VCC
VEE
GROUND

REF:IC:15-27
R:10, 11, 15-109
C:15-36
TP:15-17

APROC_IOB

COMPONENT NAME	F7:A PROC(APROC IOB)	02/21
CIRCUIT BOARD NO.		
VEP84326C		
		SCM168

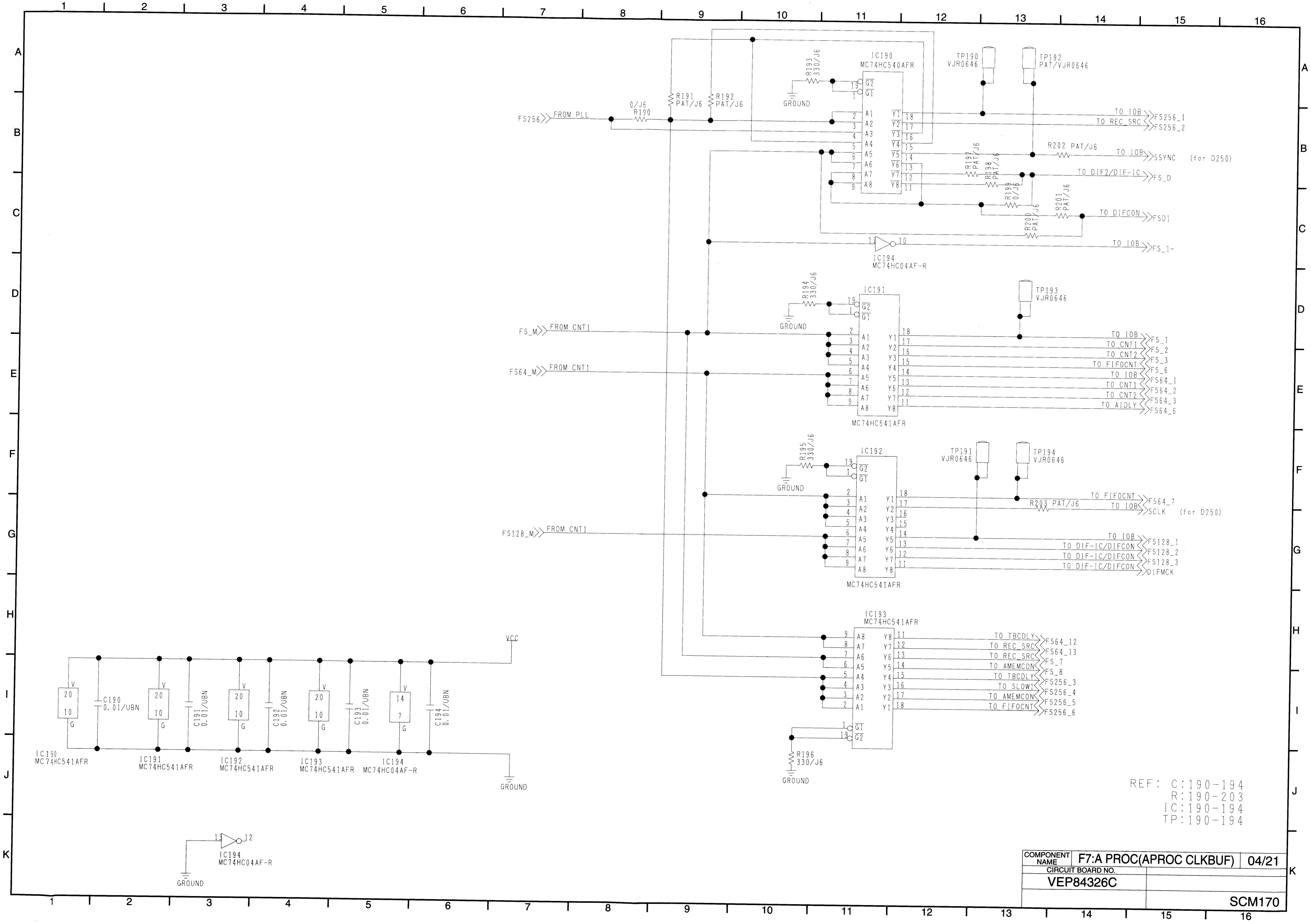
KR4H44(2/21)


AV_IORD_L FROM CON
AV_IOWR_L FROM CON
AV_RST_L FROM CON
AV_CS_APROC_L FROM CON
R129 47/J6
R130 47/J6
R131 47/J6
R132 47/J6
R133 330/J6
C119 0.01/UBN
GROUND
IC112 74F541SJ-R1
TO CNT1/2/DIF-IC/DIFCON/FIFOCNT/AMEMCON AV_RD
TO CNT1/CNT2/DIF-IC/DIFCON/FIFOCNT/SLOW1/SLOW2/AMEMCON AV_WR
TO CNT1/2/SLOW1 PONRST_N
IC121 74AC04SJ-R1
IC110 SN74S1051NSL
C117 0.01/UBN
VCC
IC120 74F32SJ-R1
REF: R:110-166 C:110-121 IC:110-121
AV_DATA_BUS[0-7] FROM CON
DATA_BUS[0-7]
R110 47/J6
R111 47/J6
R112 47/J6
R113 47/J6
R114 47/J6
R115 47/J6
R116 47/J6
R117 47/J6
IC113 74F245SJ-R1
R134 330/J6
AV_ADL[0-7]
TO CNT1/2/SLOW1/SLOW2/DIF-IC/DIFCON/FIFOCNT/AMEMCON AV_ADL[0-7]
R137 3300/J6
R147 3300/J6
R138 3300/J6
R148 3300/J6
R139 3300/J6
R149 3300/J6
R140 3300/J6
R150 3300/J6
TO AMEMCON MSUB_CS
TO FIFOCNT FIFOCNT_CS
AV_ADRS[0-10]
TO CNT1/2/SLOW1/SLOW2/DIF-IC/DIFCON/FIFOCNT/AMEMCON AV_ADRS[0-10]
ADRS_BUS[0-10]
C113 0.01/UBN
IC111 SN74S1051NSL
IC114 74F541SJ-R1
R135 330/J6
R141 1500/J6
R151 1500/J6
R142 1500/J6
R152 1500/J6
R143 1500/J6
R153 1500/J6
R144 1500/J6
R154 1500/J6
IC116 74AC138SJ-R1
IC117 74AC138SJ-R1
R166 PAT/J6 TO SLOW2 JOGCS2
R165 0/J6
TO DIF-IC SIOCS2
TO DIF-IC DIOCS2
TO DIF-IC SIOCS1
TO DIF-IC DIOCS1
TO SLOW1 JOGCS1
TO CNT1 A_CNTCS1
TO CNT2 A_CNTCS2
TO IOB SEL_FH0
TO IOB SEL_FH1
TO TBCDLY DRAM_RST
IC115 74F541SJ-R1
R145 1500/J6
R155 1500/J6
R146 1500/J6
R136 330/J6
R118 47/J6
R119 47/J6
R120 47/J6
R121 47/J6
R122 47/J6
R123 47/J6
R124 47/J6
R125 47/J6
R126 47/J6
R127 47/J6
R128 47/J6
AV_ADRS_BUS[0-10] FROM CON
IC119 UPD71055GB PIO2
R161 10K/J6
R162 10K/J6
C121 0.01/UBN
JOGONL TO CNT1/2
QSLOWL TO CNT1/2
CUEM_MUTE_L TO IOB
DMUTE_L TO DIF2/DIFCON
TO SLOW1 DV_H
TO CNT2 SEL_TRV_H
IC118 UPD71055GB PIO4
ERV_CK45 FROM PLL
ERV_CK45P FROM PLL2
R158 47/J6
R156 47/J6
R159
R157 10K/J6
SLOCK12 FROM DIF-IC/DIFCON
SLOCK34 FROM DIF-IC/DIFCON
R163 10K/J6
R164 10K/J6
TO IOB REC_MUTE_L
TO DIF1/DIFCON AD_SEL0
TO CNT1 COPB_L1S
TO CNT1/CNT2 NTSC_L
FROM DIF-IC/DIFCON ALOCK12
FROM DIF-IC/DIFCON ALOCK34
FROM DIFCON OP_L
R160 PAT/J6
C110 0.01/UBN
C111 0.01/UBN
C112 0.01/UBN
C114 0.01/UBN
C115 0.01/UBN
C116 0.01/UBN
C118 0.01/UBN
C120 0.01/UBN
IC112 74F541SJ-R1
IC113 74F245SJ-R1
IC114 74F541SJ-R1
IC115 74F541SJ-R1
IC116 74AC138SJ-R1
IC117 74AC138SJ-R1
IC120 74F32SJ-R1
IC121 74AC04SJ-R1

COMPONENT NAME	F7:A PROC(APROC SYSIO	03/21
CIRCUIT BOARD NO.		
VEP84326C		

SCM169

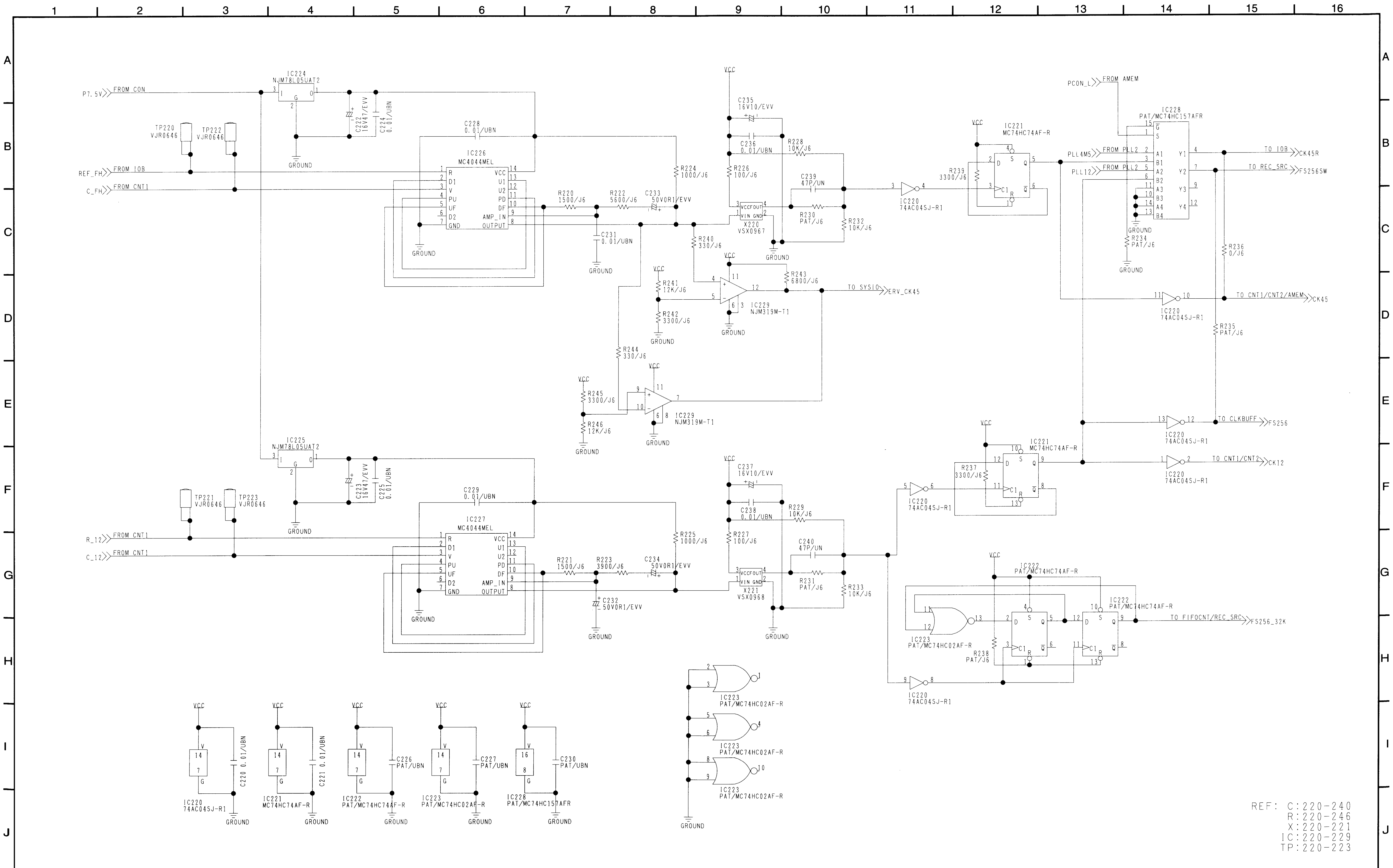
KR4H44(3/21)


IC190
MC74HC540AFR
IC191
MC74HC541AFR
IC192
MC74HC541AFR
IC193
MC74HC541AFR
IC194
MC74HC04AF-R
FS256
FROM PLL
0/J6
R190
R191 PAT/J6
R192 PAT/J6
R193 330/J6
R194 330/J6
R195 330/J6
R196 330/J6
R197 PAT/J6
R198 PAT/J6
R199 0/J6
R200 PAT/J6
R201 PAT/J6
R202 PAT/J6
R203 PAT/J6
TP190 VJR0646
TP192 PAT/VJR0646
TP193 VJR0646
TP191 VJR0646
TP194 VJR0646
GROUND
TO IOB FS256_1
TO REC_SRC FS256_2
TO IOB SSYNC (for D250)
TO DIF2/DIF-IC FS_D
TO DIFCON FSD1
TO IOB FS_1-
FS_M FROM CNT1
FS64_M FROM CNT1
TO IOB FS_1
TO CNT1 FS_2
TO CNT2 FS_3
TO FIFOCNT FS_5
TO IOB FS64_1
TO CNT1 FS64_2
TO CNT2 FS64_3
TO AIDLY FS64_5
FS128_M FROM CNT1
TO FIFOCNT FS64_7
TO IOB SCLK (for D250)
TO IOB FS128_1
TO DIF-IC/DIFCON FS128_2
TO DIF-IC/DIFCON FS128_3
TO DIF-IC/DIFCON DIFMCK
TO TBCDLY FS64_12
TO REC_SRC FS64_13
TO REC_SRC FS_7
TO AMEMCON FS_8
TO TBCDLY FS256_3
TO SLOW1 FS256_4
TO AMEMCON FS256_5
TO FIFOCNT FS256_6
VCC
C190 0.01/UBN
C191 0.01/UBN
C192 0.01/UBN
C193 0.01/UBN
C194 0.01/UBN
IC190 MC74HC541AFR
IC191 MC74HC541AFR
IC192 MC74HC541AFR
IC193 MC74HC541AFR
IC194 MC74HC04AF-R

REF: C:190-194
R:190-203
IC:190-194
TP:190-194

COMPONENT NAME	F7:A PROC(APROC CLKBUF)	04/21
CIRCUIT BOARD NO.		
VEP84326C		
	SCM170	

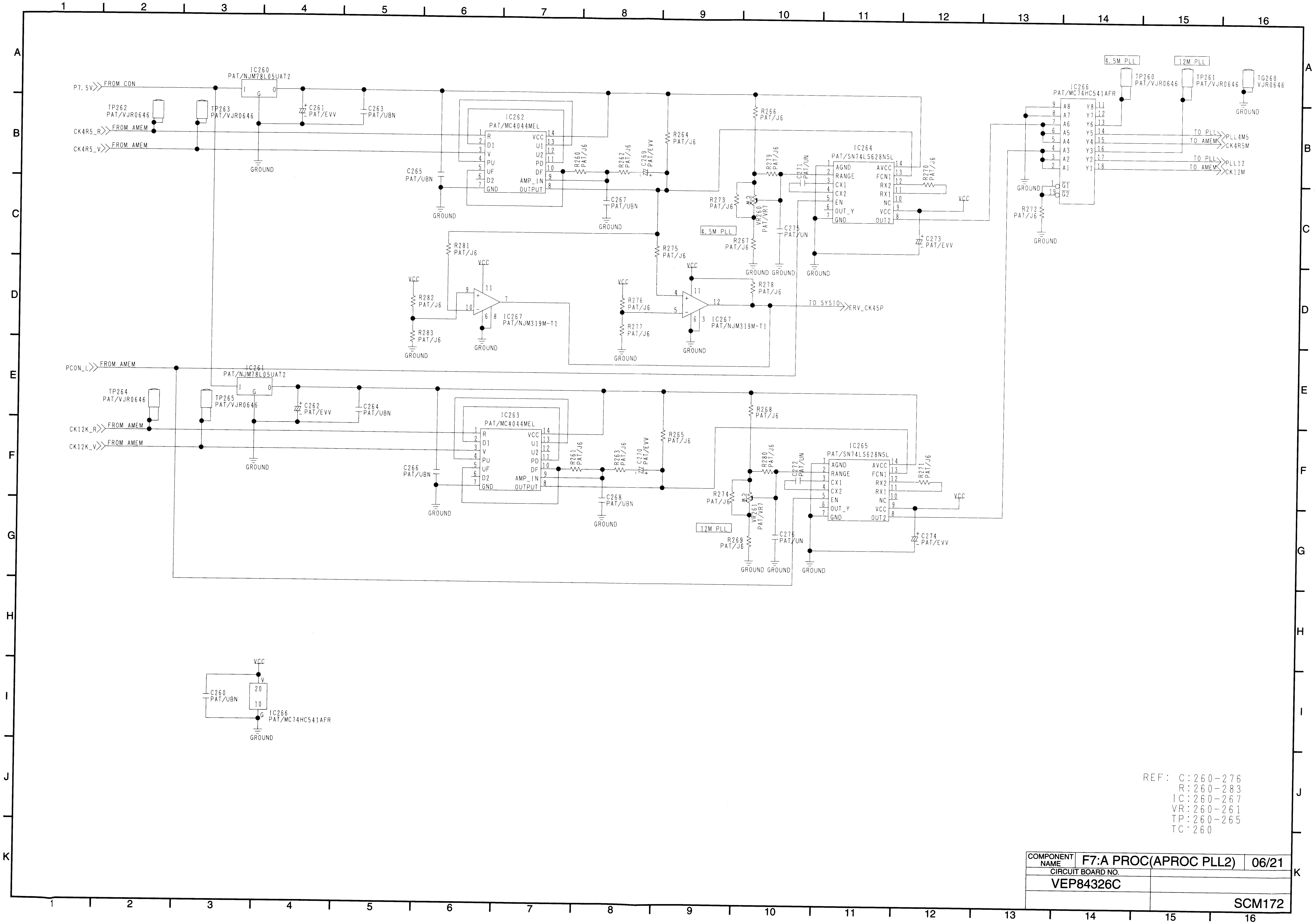
KR4H44(4/21)


P7.5V FROM CON
IC224 NJM78L05UAT2
C222 16V47/EVV
C224 0.01/UBN
GROUND
TP220 VJR0646
TP222 VJR0646
REF_FH FROM IOB
C_FH FROM CNT1
C228 0.01/UBN
IC226 MC4044MEL
R D1 V PU UF D2 GND
VCC U1 U2 PD DF AMP_IN OUTPUT
R224 1000/J6
R220 1500/J6
R222 5600/J6
C233 50V0R1/EVV
C231 0.01/UBN
R240 330/J6
VCC
C235 16V10/EVV
C236 0.01/UBN
R228 10K/J6
R226 100/J6
C239 47P/UN
VCCFOUT VIN GND
X220 VSX0967
R230 PAT/J6
R232 10K/J6
R241 12K/J6
R242 3300/J6
R243 6800/J6
IC229 NJM319M-T1
TO SYSIO ERV_CK45
R244 330/J6
R245 3300/J6
R246 12K/J6
IC220 74AC04SJ-R1
R239 3300/J6
IC221 MC74HC74AF-R
D S Q C1 R Q̄
PCON_L FROM AMEM
IC228 PAT/MC74HC157AFR
PLL4M5 FROM PLL2
PLL12 FROM PLL2
Ḡ S A1 B1 A2 B2 A3 B3 A4 B4 Y1 Y2 Y3 Y4
R234 PAT/J6
TO IOB CK45R
TO REC_SRC FS256SW
R236 0/J6
TO CNT1/CNT2/AMEM CK45
R235 PAT/J6
TO CLKBUFF FS256
TO CNT1/CNT2 CK12
R237 3300/J6
IC225 NJM78L05UAT2
C223 16V47/EVV
C225 0.01/UBN
TP221 VJR0646
TP223 VJR0646
R_12 FROM CNT1
C_12 FROM CNT1
C229 0.01/UBN
IC227 MC4044MEL
R225 1000/J6
R221 1500/J6
R223 3900/J6
C234 50V0R1/EVV
C232 50V0R1/EVV
C237 16V10/EVV
C238 0.01/UBN
R229 10K/J6
R227 100/J6
C240 47P/UN
X221 VSX0968
R231 PAT/J6
R233 10K/J6
IC222 PAT/MC74HC74AF-R
IC223 PAT/MC74HC02AF-R
R238 PAT/J6
TO FIFOCNT/REC_SRC FS256_32K
C220 0.01/UBN
C221 0.01/UBN
C226 PAT/UBN
C227 PAT/UBN
C230 PAT/UBN
IC228 PAT/MC74HC157AFR

REF: C:220-240
R:220-246
X:220-221
IC:220-229
TP:220-223

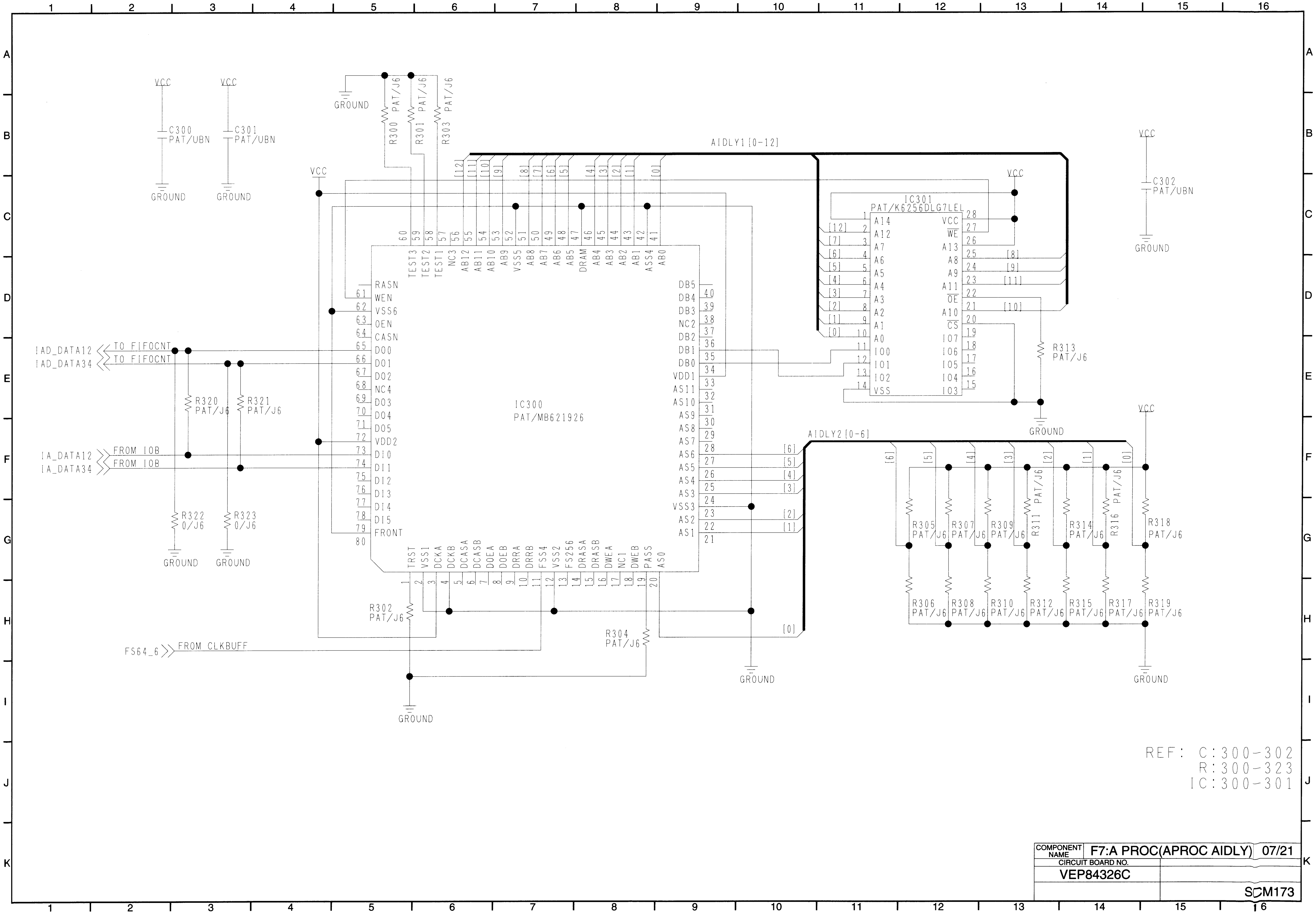
COMPONENT NAME	F7:A PROC(APROC PLL)	05/21
CIRCUIT BOARD NO.		
VEP84326C		
		SCM171

KR4H44(5/21)


P7.5V
FROM CON
IC260
PAT/NJM78L05UAT2
C261
PAT/EVV
C263
PAT/UBN
TP262
PAT/VJR0646
TP263
PAT/VJR0646
CK4R5_R
FROM AMEM
CK4R5_V
FROM AMEM
GROUND
IC262
PAT/MC4044MEL
R
D1
V
PU
UF
D2
GND
VCC
U1
U2
PD
DF
AMP_IN
OUTPUT
C265
PAT/UBN
R260
PAT/J6
R262
PAT/J6
C269
PAT/EVV
R264
PAT/J6
C267
PAT/UBN
R266
PAT/J6
R279
PAT/J6
C271
PAT/UN
IC264
PAT/SN74LS628NSL
AGND
RANGE
CX1
CX2
EN
OUT_Y
GND
AVCC
FCN1
RX2
RX1
NC
VCC
OUT2
R270
PAT/J6
R273
PAT/J6
VR260
PAT/VR7
C275
PAT/UN
4.5M PLL
R267
PAT/J6
C273
PAT/EVV
R281
PAT/J6
VCC
R282
PAT/J6
R283
PAT/J6
IC267
PAT/NJM319M-T1
R275
PAT/J6
R278
PAT/J6
R276
PAT/J6
R277
PAT/J6
TO SYSIO
ERV_CK45P
4.5M PLL
12M PLL
TP260
PAT/VJR0646
TP261
PAT/VJR0646
TG260
VJR0646
IC266
PAT/MC74HC541AFR
A8
A7
A6
A5
A4
A3
A2
A1
G1
G2
Y8
Y7
Y6
Y5
Y4
Y3
Y2
Y1
TO PLL
PLL4M5
TO AMEM
CK4R5M
TO PLL
PLL12
TO AMEM
CK12M
R272
PAT/J6
PCON_L
FROM AMEM
IC261
PAT/NJM78L05UAT2
C262
PAT/EVV
C264
PAT/UBN
TP264
PAT/VJR0646
TP265
PAT/VJR0646
CK12K_R
FROM AMEM
CK12K_V
FROM AMEM
IC263
PAT/MC4044MEL
C266
PAT/UBN
R261
PAT/J6
R263
PAT/J6
C270
PAT/EVV
R265
PAT/J6
C268
PAT/UBN
R268
PAT/J6
R280
PAT/J6
C272
PAT/UN
IC265
PAT/SN74LS628NSL
R271
PAT/J6
R274
PAT/J6
VR261
PAT/VR7
C276
PAT/UN
12M PLL
R269
PAT/J6
C274
PAT/EVV
C260
PAT/UBN
IC266
PAT/MC74HC541AFR
REF: C:260-276
R:260-283
IC:260-267
VR:260-261
TP:260-265
TC:260

COMPONENT NAME	F7:A PROC(APROC PLL2)	06/21
CIRCUIT BOARD NO.		
VEP84326C		
		SCM172

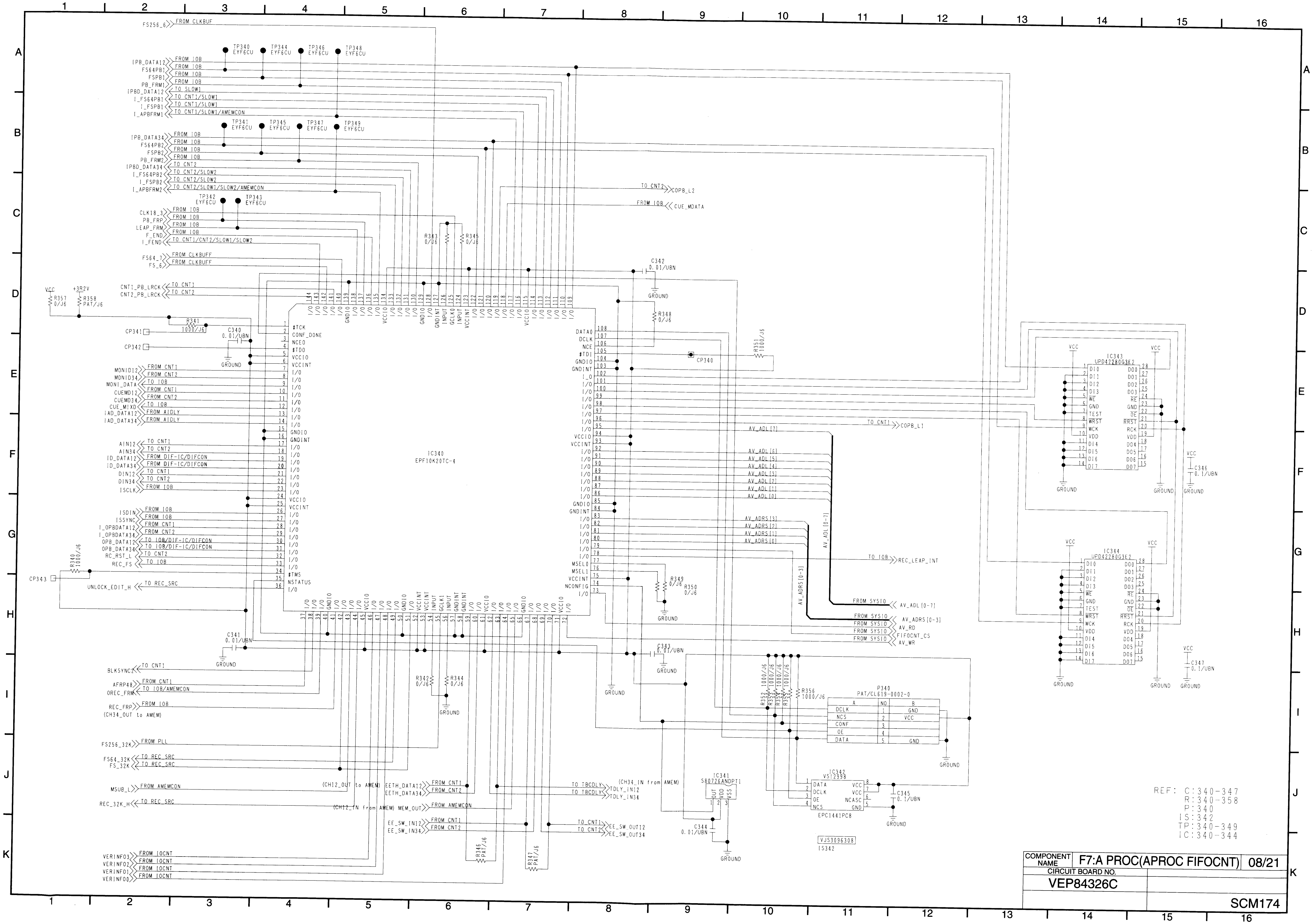
KR4H44(6/21)


AIDLY1[0-12]
AIDLY2[0-6]
IC300
PAT/MB621926
IC301
PAT/K6256DLG7LEL
C300 PAT/UBN
C301 PAT/UBN
C302 PAT/UBN
R300 PAT/J6
R301 PAT/J6
R303 PAT/J6
R302 PAT/J6
R304 PAT/J6
R313 PAT/J6
R305 PAT/J6
R306 PAT/J6
R307 PAT/J6
R308 PAT/J6
R309 PAT/J6
R310 PAT/J6
R311 PAT/J6
R312 PAT/J6
R314 PAT/J6
R315 PAT/J6
R316 PAT/J6
R317 PAT/J6
R318 PAT/J6
R319 PAT/J6
R320 PAT/J6
R321 PAT/J6
R322 0/J6
R323 0/J6
VCC
GROUND
IAD_DATA12 TO FIFOCNT
IAD_DATA34 TO FIFOCNT
IA_DATA12 FROM IOB
IA_DATA34 FROM IOB
FS64_6 FROM CLKBUFF
RASN WEN VSS6 OEN CASN DO0 DO1 DO2 NC4 DO3 DO4 DO5 VDD2 DI0 DI1 DI2 DI3 DI4 DI5 FRONT
TEST3 TEST2 TEST1 NC3 AB12 AB11 AB10 AB9 VSS5 AB8 AB7 AB6 AB5 DRAM AB4 AB3 AB2 AB1 ASS4 AB0
DB5 DB4 DB3 NC2 DB2 DB1 DB0 VDD1 AS11 AS10 AS9 AS8 AS7 AS6 AS5 AS4 AS3 VSS3 AS2 AS1
TRST VSS1 DCKA DCKB DCASA DCASB DOEA DOEB DRRA DRRB FS54 VSS2 FS256 DRASA DRASB DWEA NC1 DWEB PASS AS0
A14 A12 A7 A6 A5 A4 A3 A2 A1 A0 IO0 IO1 IO2 VSS
VCC WE A13 A8 A9 A11 OE A10 CS IO7 IO6 IO5 IO4 IO3

REF: C:300-302
R:300-323
IC:300-301

COMPONENT NAME	F7:A PROC(APROC AIDLY)	07/21
CIRCUIT BOARD NO.		
VEP84326C		
		SCM173

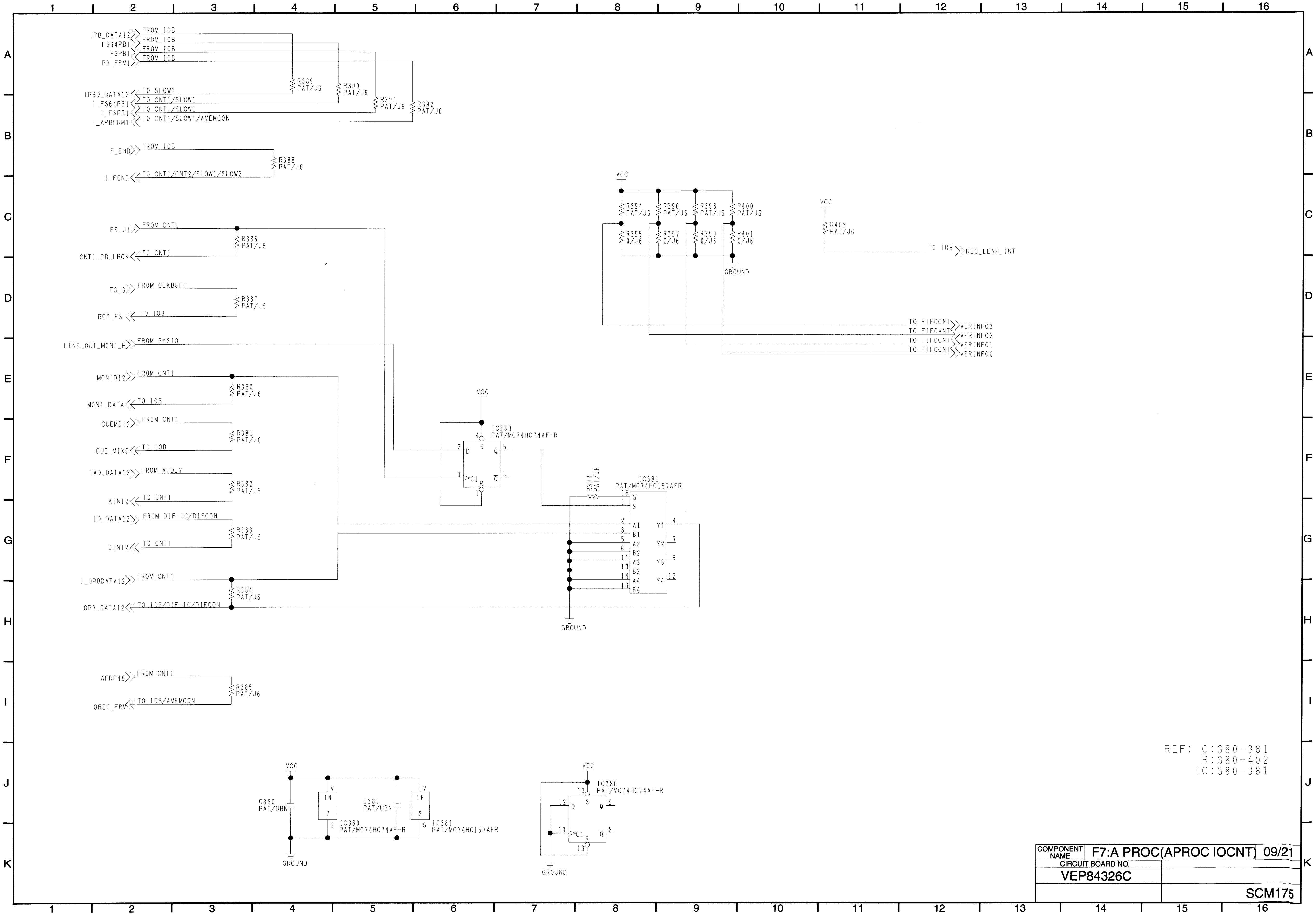
KR4H44(7/21)


IC340
EPF10K20TC-4
IC343
UPD42280G3E2
IC344
UPD42280G3E2
IC341
S80726ANDPT1
IC342
VS12998
EPC1441PC8
P340
PAT/CL619-0002-0
VJS3096308
IS342
FS256_6 FROM CLKBUF
IPB_DATA12 FROM IOB
FS64PB1 FROM IOB
FSPB1 FROM IOB
PB_FRM1 FROM IOB
IPBD_DATA12 TO SLOW1
I_FS64PB1 TO CNT1/SLOW1
I_FSPB1 TO CNT1/SLOW1
I_APBFRM1 TO CNT1/SLOW1/AMEMCON
IPB_DATA34 FROM IOB
FS64PB2 FROM IOB
FSPB2 FROM IOB
PB_FRM2 FROM IOB
IPBD_DATA34 TO CNT2
I_FS64PB2 TO CNT2/SLOW2
I_FSPB2 TO CNT2/SLOW2
I_APBFRM2 TO CNT2/SLOW1/SLOW2/AMEMCON
CLK18_3 FROM IOB
PB_FRP FROM IOB
LEAP_FRM FROM IOB
F_END FROM IOB
I_FEND TO CNT1/CNT2/SLOW1/SLOW2
FS64_7 FROM CLKBUFF
FS_6 FROM CLKBUFF
CNT1_PB_LRCK TO CNT1
CNT2_PB_LRCK TO CNT2
TO CNT2 COPB_L2
FROM IOB CUE_MDATA
TO CNT1 COPB_L1
TO IOB REC_LEAP_INT
FROM SYSIO AV_ADL[0-7]
FROM SYSIO AV_ADRS[0-3]
FROM SYSIO AV_RD
FROM SYSIO FIFOCNT_CS
FROM SYSIO AV_WR
MONID12 FROM CNT1
MONID34 FROM CNT2
MONI_DATA TO IOB
CUEMD12 FROM CNT1
CUEMD34 FROM CNT2
CUE_MIXD TO IOB
IAD_DATA12 FROM AIDLY
IAD_DATA34 FROM AIDLY
AIN12 TO CNT1
AIN34 TO CNT2
ID_DATA12 FROM DIF-IC/DIFCON
ID_DATA34 FROM DIF-IC/DIFCON
DIN12 TO CNT1
DIN34 TO CNT2
ISCLK FROM IOB
ISDIN FROM IOB
ISSYNC FROM IOB
I_OPBDATA12 FROM CNT1
I_OPBDATA34 FROM CNT2
OPB_DATA12 TO IOB/DIF-IC/DIFCON
OPB_DATA34 TO IOB/DIF-IC/DIFCON
RC_RST_L TO CNT2
REC_FS TO IOB
UNLOCK_EDIT_H TO REC_SRC
BLKSYNC TO CNT1
AFRP48 FROM CNT1
OREC_FRM TO IOB/AMEMCON
REC_FRP FROM IOB
(CH34_OUT to AMEM)
FS256_32K FROM PLL
FS64_32K TO REC_SRC
FS_32K TO REC_SRC
MSUB_L FROM AMEMCON
REC_32K_H TO REC_SRC
(CH12_OUT to AMEM) EETH_DATA12 FROM CNT1
EETH_DATA34 FROM CNT2
(CH12_IN from AMEM) MEM_OUT FROM AMEMCON
EE_SW_IN12 FROM CNT1
EE_SW_IN34 FROM CNT2
TO TBCDLY TDLY_IN12 (CH34_IN from AMEM)
TO TBCDLY TDLY_IN34
TO CNT1 EE_SW_OUT12
TO CNT2 EE_SW_OUT34
VERINF03 FROM IOCNT
VERINF02 FROM IOCNT
VERINF01 FROM IOCNT
VERINF00 FROM IOCNT
CP340
CP341
CP342
CP343
GROUND
VCC
+3R2V

REF: C:340-347
R:340-358
P:340
IS:342
TP:340-349
IC:340-344

COMPONENT NAME	F7:A PROC(APROC FIFOCNT)	08/21
CIRCUIT BOARD NO.		
VEP84326C		
		SCM174

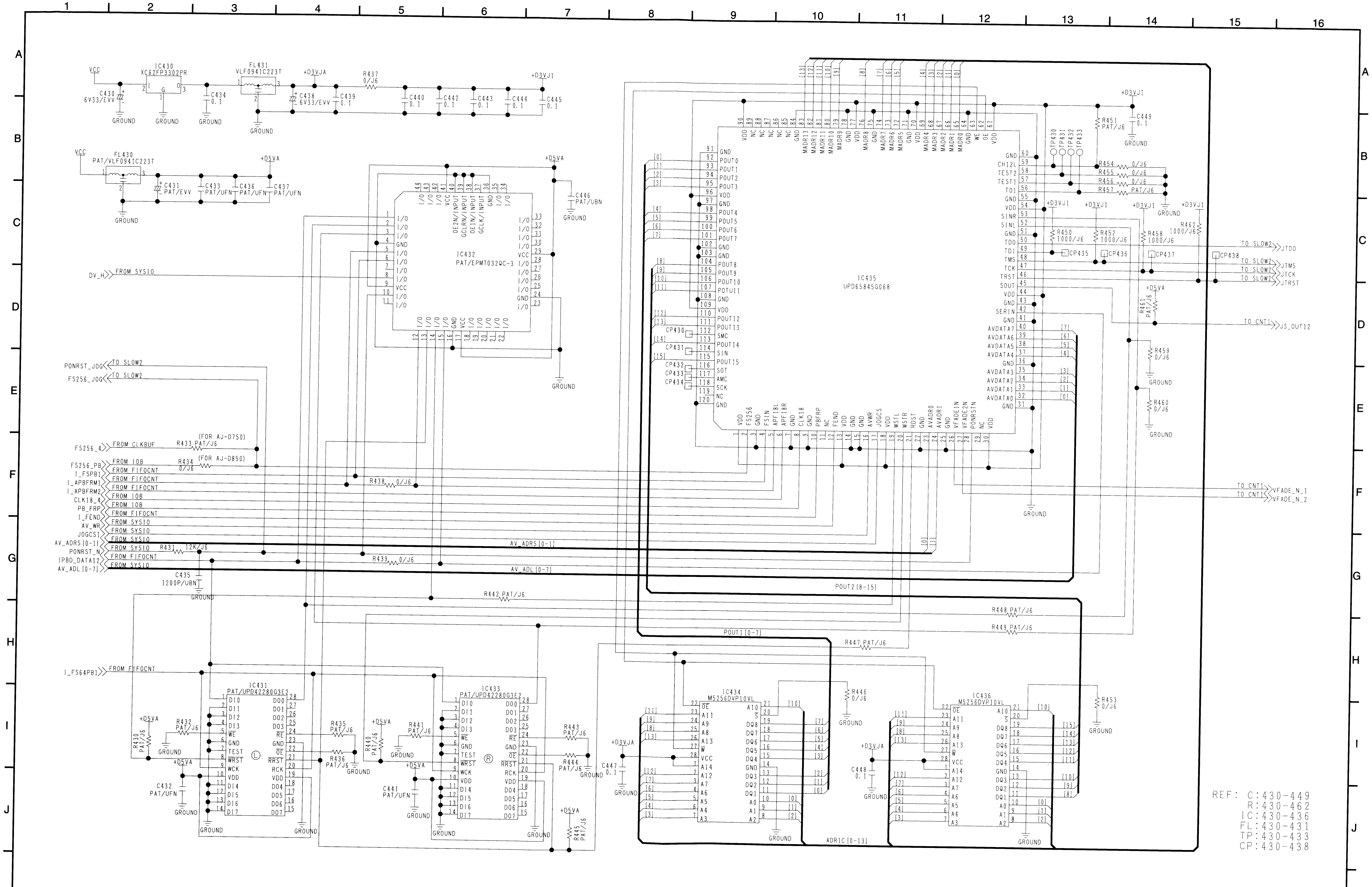
KR4H44(8/21)


IPB_DATA12 FROM IOB
FS64PB1 FROM IOB
FSPB1 FROM IOB
PB_FRM1 FROM IOB
R389 PAT/J6
R390 PAT/J6
R391 PAT/J6
R392 PAT/J6
IPBD_DATA12 TO SLOW1
I_FS64PB1 TO CNT1/SLOW1
I_FSPB1 TO CNT1/SLOW1
I_APBFRM1 TO CNT1/SLOW1/AMEMCON
F_END FROM IOB
R388 PAT/J6
I_FEND TO CNT1/CNT2/SLOW1/SLOW2
FS_J1 FROM CNT1
R386 PAT/J6
CNT1_PB_LRCK TO CNT1
FS_6 FROM CLKBUFF
R387 PAT/J6
REC_FS TO IOB
LINE_OUT_MONI_H FROM SYSIO
MONID12 FROM CNT1
R380 PAT/J6
MONI_DATA TO IOB
CUEMD12 FROM CNT1
R381 PAT/J6
CUE_MIXD TO IOB
IAD_DATA12 FROM AIDLY
R382 PAT/J6
AIN12 TO CNT1
ID_DATA12 FROM DIF-IC/DIFCON
R383 PAT/J6
DIN12 TO CNT1
I_OPBDATA12 FROM CNT1
R384 PAT/J6
OPB_DATA12 TO IOB/DIF-IC/DIFCON
AFRP48 FROM CNT1
R385 PAT/J6
OREC_FRM TO IOB/AMEMCON
VCC
R394 PAT/J6
R396 PAT/J6
R398 PAT/J6
R400 PAT/J6
R395 0/J6
R397 0/J6
R399 0/J6
R401 0/J6
GROUND
VCC
R402 PAT/J6
TO IOB REC_LEAP_INT
TO FIFOCNT VERINFO3
TO FIFOVNT VERINFO2
TO FIFOCNT VERINFO1
TO FIFOCNT VERINFO0
VCC
IC380 PAT/MC74HC74AF-R
4 S 2 D Q 5 3 C1 Q̄ 6 R 1
R393 PAT/J6
IC381 PAT/MC74HC157AFR
15 Ḡ 1 S
2 A1 3 B1 5 A2 6 B2 11 A3 10 B3 14 A4 13 B4
Y1 4 Y2 7 Y3 9 Y4 12
GROUND
VCC
C380 PAT/UBN
14 7 V G
IC380 PAT/MC74HC74AF-R
C381 PAT/UBN
16 8 V G
IC381 PAT/MC74HC157AFR
GROUND
VCC
IC380 PAT/MC74HC74AF-R
10 S 12 D Q 9 11 C1 Q̄ 8 R 13
GROUND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

REF: C:380-381
R:380-402
IC:380-381

COMPONENT NAME	F7:A PROC(APROC IOCNT) 09/21
CIRCUIT BOARD NO.	
VEP84326C	
	SCM175

KR4H44(9/21)

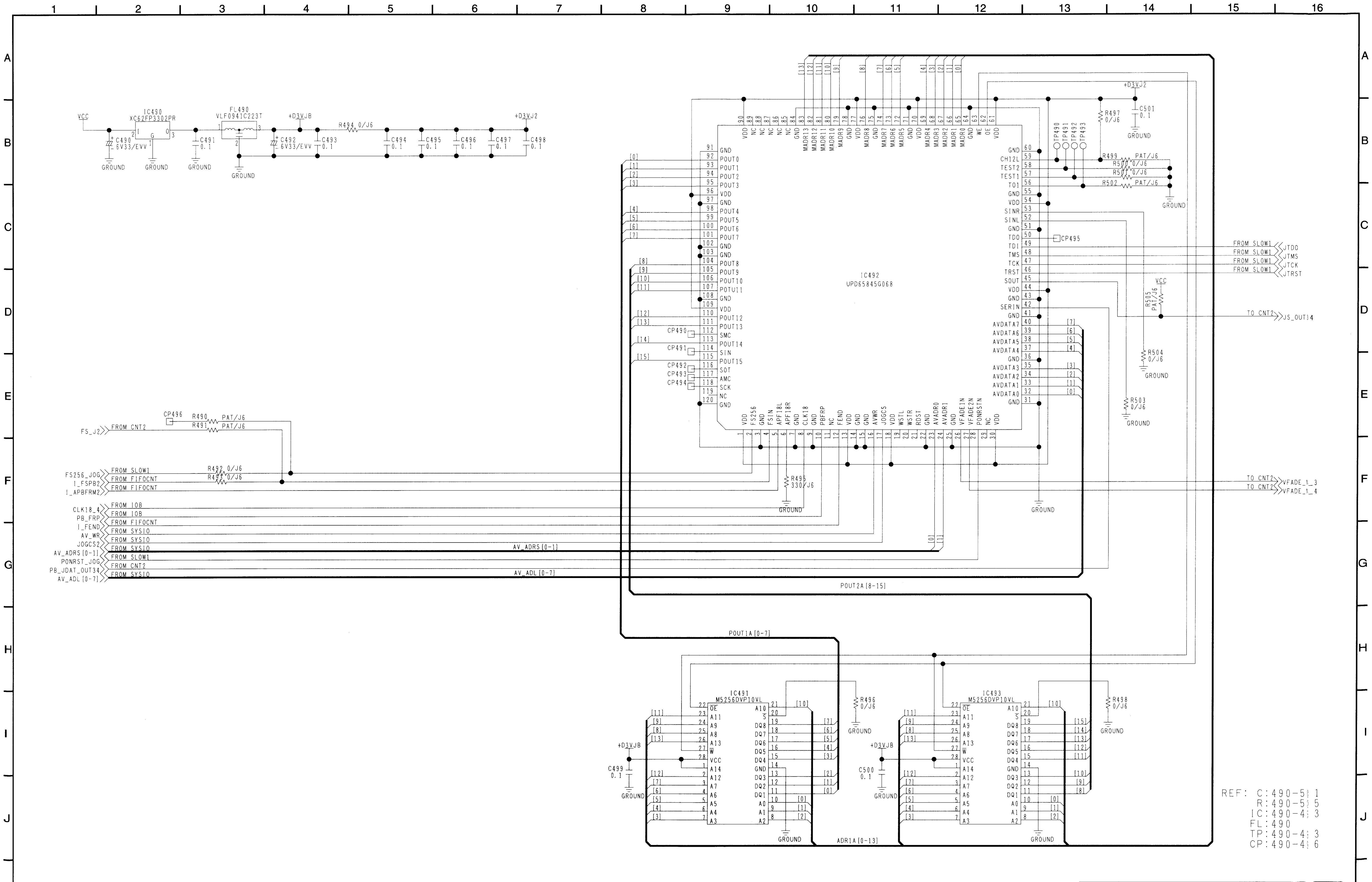

IC430
XC62FP3302PR
FL431
VLF0941C223T
FL430
PAT/VLF0941C223T
IC432
PAT/EPM7032QC-3
IC435
UPD65845GO68
IC431
PAT/UPD42280G3E2
IC433
PAT/UPD42280G3E2
IC434
M5256DVP10VL
IC436
M5256DVP10VL
VCC
+D3VJA
+D3VJ1
+D5VA
GROUND
DV_H
FROM SYSIO
PONRST_JOG
TO SLOW2
FS256_JOG
FS256_4
FROM CLKBUF
FS256_PB
FROM IOB
I_FSPB1
I_APBFRM1
I_APBFRM2
FROM FIFOCNT
CLK18_4
PB_FRP
I_FEND
AV_WR
JOGCS1
AV_ADRS [0-1]
PONRST_N
IPBD_DATA12
AV_ADL [0-7]
I_FS64PB1
(FOR AJ-D750)
(FOR AJ-D850)
POUT2 [8-15]
POUT1 [0-7]
ADR1C [0-13]
JTDO
JTMS
JTCK
JTRST
JS_OUT12
TO CNT1
VFADE_N_1
VFADE_N_2

REF: C:430-449
R:430-462
IC:430-436
FL:430-431
TP:430-433
CP:430-438

COMPONENT NAME	F7:A PROC(APROC SLOW1)	10/21
CIRCUIT BOARD NO.		
VEP84326C		
		SCM176

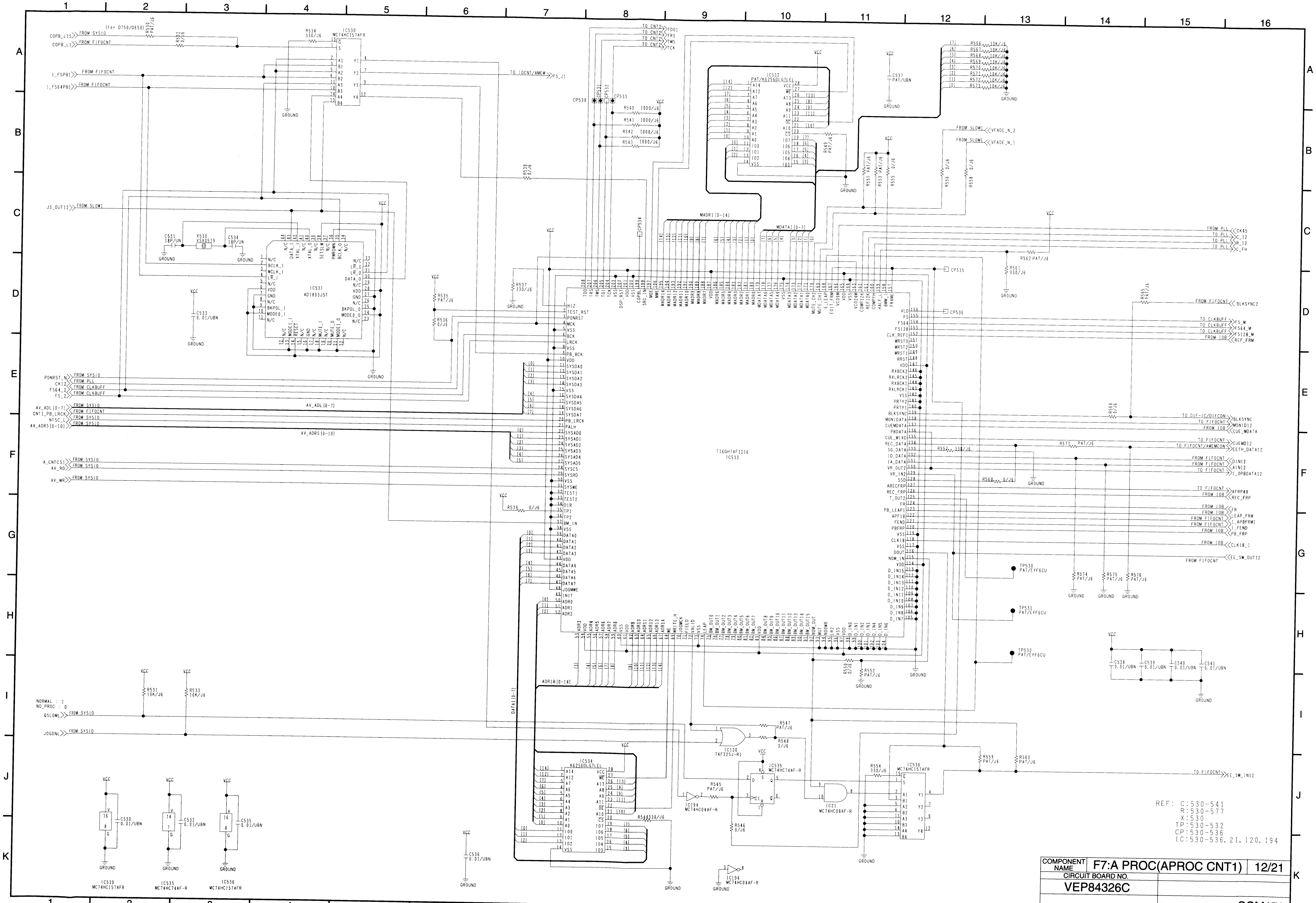
KR4H44(10/21)

KR4H44(11/21)


IC450
XC62FP3302PR
VCC
C490
6V33/EVV
C491
0.1
GROUND
FL490
VLF0941C223T
+D3VJB
C492
6V33/EVV
C493
0.1
R494 0/J6
C494
C495
C496
C497
C498
+D3VJ2
IC492
UPD65845G068
POUT0
POUT1
POUT2
POUT3
POUT4
POUT5
POUT6
POUT7
POUT8
POUT9
POUT10
POTU11
POUT12
POUT13
SMC
POUT14
SIN
POUT15
SOT
AMC
SCK
NC
GND
VDD
CP490
CP491
CP492
CP493
CP494
MADR13
MADR12
MADR11
MADR10
MADR9
MADR8
MADR7
MADR6
MADR5
MADR4
MADR3
MADR2
MADR1
MADR0
WE
OE
CH12L
TEST2
TEST1
TO1
SINR
SINL
TDO
TDI
TMS
TCK
TRST
SOUT
SERIN
AVDATA7
AVDATA6
AVDATA5
AVDATA4
AVDATA3
AVDATA2
AVDATA1
AVDATA0
FS256
FSIN
APF18L
APF18R
CLK18
PBFRP
FEND
AVWR
JOGCS
WSTL
WSTR
RDST
AVADR0
AVADR1
VFADE1N
VFADE2N
PONRSTN
TP490
TP491
TP492
TP493
R497
0/J6
C501
0.1
R499 PAT/J6
R500 0/J6
R501 0/J6
R502 PAT/J6
CP495
FROM SLOW1
JTDO
JTMS
JTCK
JTRST
VCC
R505
PAT/J6
TO CNT2
JS_OUT14
R504
0/J6
R503
0/J6
R495
330/J6
VFADE_1_3
VFADE_1_4
CP496
R490 PAT/J6
R491 PAT/J6
FS_J2
FROM CNT2
R492 0/J6
R493 0/J6
FS256_JOG
FROM SLOW1
I_FSPB2
FROM FIFOCNT
I_APBFRM2
FROM FIFOCNT
CLK18_4
FROM IOB
PB_FRP
FROM IOB
I_FEND
FROM FIFOCNT
AV_WR
FROM SYSIO
JOGCS2
FROM SYSIO
AV_ADRS[0-1]
FROM SYSIO
PONRST_JOG
FROM SLOW1
PB_JDAT_OUT34
FROM CNT2
AV_ADL[0-7]
FROM SYSIO
AV_ADRS[0-1]
AV_ADL[0-7]
POUT2A[8-15]
POUT1A[0-7]
IC491
M5256DVP10VL
IC493
M5256DVP10VL
OE
A10
A11
S
A9
DQ8
A8
DQ7
A13
DQ6
W
DQ5
VCC
DQ4
A14
A12
DQ3
A7
DQ2
A6
DQ1
A5
A0
A4
A1
A3
A2
R496
0/J6
R498
0/J6
C499
0.1
C500
0.1
ADR1A[0-13]

REF: C:490-501
R:490-505
IC:490-493
FL:490
TP:490-493
CP:490-496

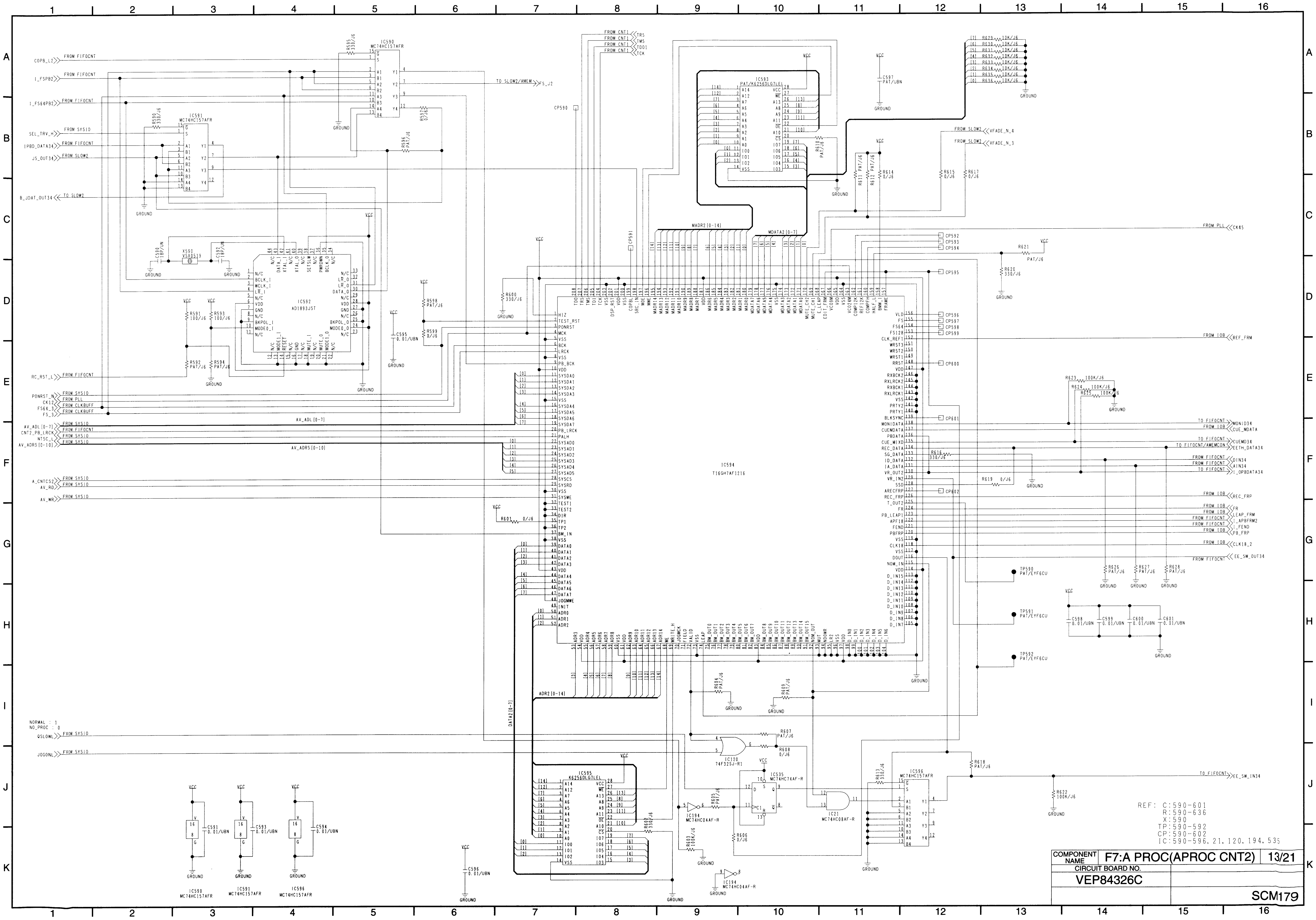
COMPONENT NAME	F7:A PROC(APROC SLOW2)	11/21
CIRCUIT BOARD NO.		
VEP84326C		
	SCM177	


IC530 MC74HC157AFR
IC531 AD1893JST
IC532 PAT/K6256DLG7LEL
IC533 T16GH7AF1216
IC534 K6256DLG7LEL
IC535 MC74HC74AF-R
IC536 MC74HC157AFR
IC120 74F32SJ-R1
IC21 MC74HC08AF-R
IC194 MC74HC04AF-R
X530 VSX0519
COPB_L1S FROM SYS10
COPB_L1 FROM FIFOCNT
I_FSPB1 FROM FIFOCNT
I_FS64PB1 FROM FIFOCNT
J5_OUT12 FROM SLOW1
PONRST_N FROM SYS10
CK12 FROM PLL
FS64_2 FROM CLKBUFF
FS_2 FROM CLKBUFF
AV_ADL[0-7] FROM SYS10
CNT1_PB_LRCK FROM FIFOCNT
NTSC_L FROM SYS10
AV_ADRS[0-10] FROM SYS10
A_CNTCS1 FROM SYS10
AV_RD FROM SYS10
AV_WR FROM SYS10
QSLOWL FROM SYS10
JOGONL FROM SYS10
NORMAL : 1
NO_PROC : 0
TO CNT2 TDO1
TO CNT2 TRS
TO CNT2 TMS
TO CNT2 TCK
TO IOCNT/XMEM F5_J1
MADR1[0-14]
MDATA1[0-7]
ADR1B[0-14]
DATA1[0-7]
FROM SLOW1 VFADE_N_2
FROM SLOW1 VFADE_N_1
FROM PLL CK45
TO PLL C_12
TO PLL R_12
TO PLL C_FH
FROM FIFOCNT BLKSYNC2
TO CLKBUFF F5_M
TO CLKBUFF FS64_M
TO CLKBUFF FS128_M
FROM IOB REF_FRM
TO DIF-IC/DIFCON BLKSYNC
TO FIFOCNT MONID12
FROM IOB CUE_MDATA
TO FIFOCNT CUEMD12
TO FIFOCNT/AMEMCON EETH_DATA12
FROM FIFOCNT DIN12
FROM FIFOCNT AIN12
TO FIFOCNT I_OPBDATA12
TO FIFOCNT AFRP48
FROM IOB REC_FRP
FROM IOB FR
FROM IOB LEAP_FRM
FROM FIFOCNT I_APBFRM1
FROM FIFOCNT I_FEND
FROM IOB PB_FRP
FROM IOB CLK18_1
FROM FIFOCNT EE_SW_OUT12
TO FIFOCNT EE_SW_IN12
TP530 PAT/EYF6CU
TP531 PAT/EYF6CU
TP532 PAT/EYF6CU
CP530
CP531
CP532
CP533
CP534
CP535
CP536
VCC
GROUND
A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

REF: C:530-541
R:530-577
X:530
TP:530-532
CP:530-536
IC:530-536, 21, 120, 194

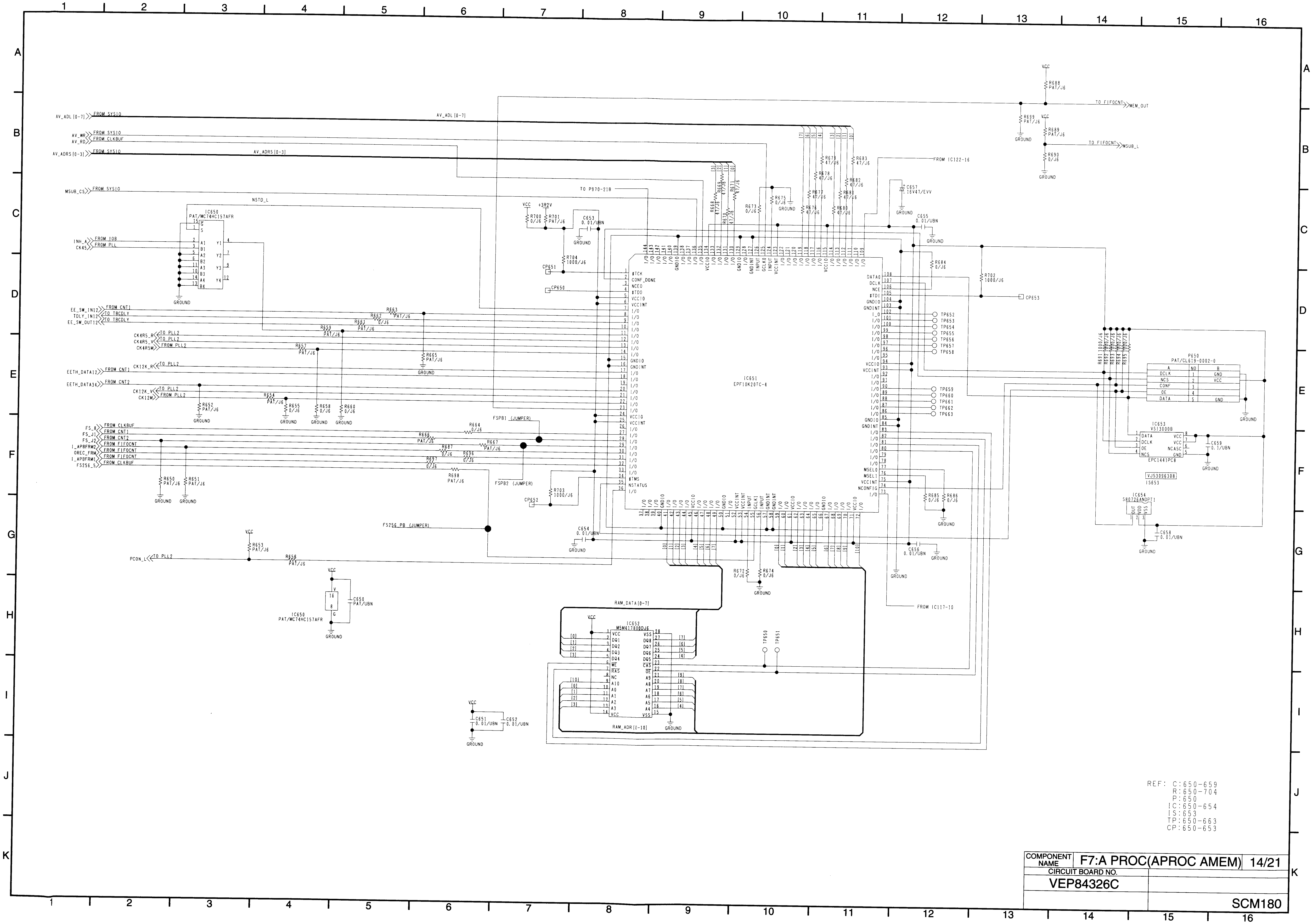
COMPONENT NAME	F7:A PROC(APROC CNT1)	12/21
CIRCUIT BOARD NO.		
VEP84326C		
	SCM178	

KR4H44(12/2


IC590
MC74HC157AFR
IC591
MC74HC157AFR
IC592
AD1893JST
IC593
PAT/K6256DLGTLEL
IC594
TI6GHTAF1216
IC595
K6256DLGTLEL
IC596
MC74HC157AFR
IC535
MC74HC74AF-R
IC120
74F32SJ-R
IC21
MC74HC08AF-R
IC194
MC74HC04AF-R
X590
VSX0519
MADR2[0-14]
MDATA2[0-7]
ADR2[0-14]
DATA2[0-7]
AV_ADL[0-7]
AV_ADRS[0-10]
COPB_L2
I_FSPB2
I_FS64PB2
SEL_TRV_H
IPBD_DATA34
JS_OUT34
B_JDAT_OUT34
RC_RST_L
PONRST_N
CK12
FS64_3
FS_3
CNT2_PB_LRCK
NTSC_L
A_CNTCS2
AV_RD
AV_WR
QSLOWL
JOGONL
NORMAL : 1
NO_PROC : 0
FROM FIFOCNT
FROM SYSIO
FROM SLOW2
FROM PLL
FROM CLKBUFF
FROM IOB
TO SLOW2
TO SLOW2/AMEM
FS_J2
TO FIFOCNT
TO FIFOCNT/AMEMCON
TRS
TMS
TDOI
TCK
VFADE_N_4
VFADE_N_3
CK45
REF_FRM
MONI D34
CUE_MDATA
CUEMD34
EETH_DATA34
DIN34
AIN34
I_OPBDATA34
REC_FRP
FR
LEAP_FRM
I_APBFRM2
I_FEND
PB_FRP
CLK18_2
EE_SW_OUT34
EE_SW_IN34
TP590
TP591
TP592
PAT/EYF6CU
VCC
GROUND

REF: C:590-601
R:590-636
X:590
TP:590-592
CP:590-602
IC:590-596, 21, 120, 194, 535

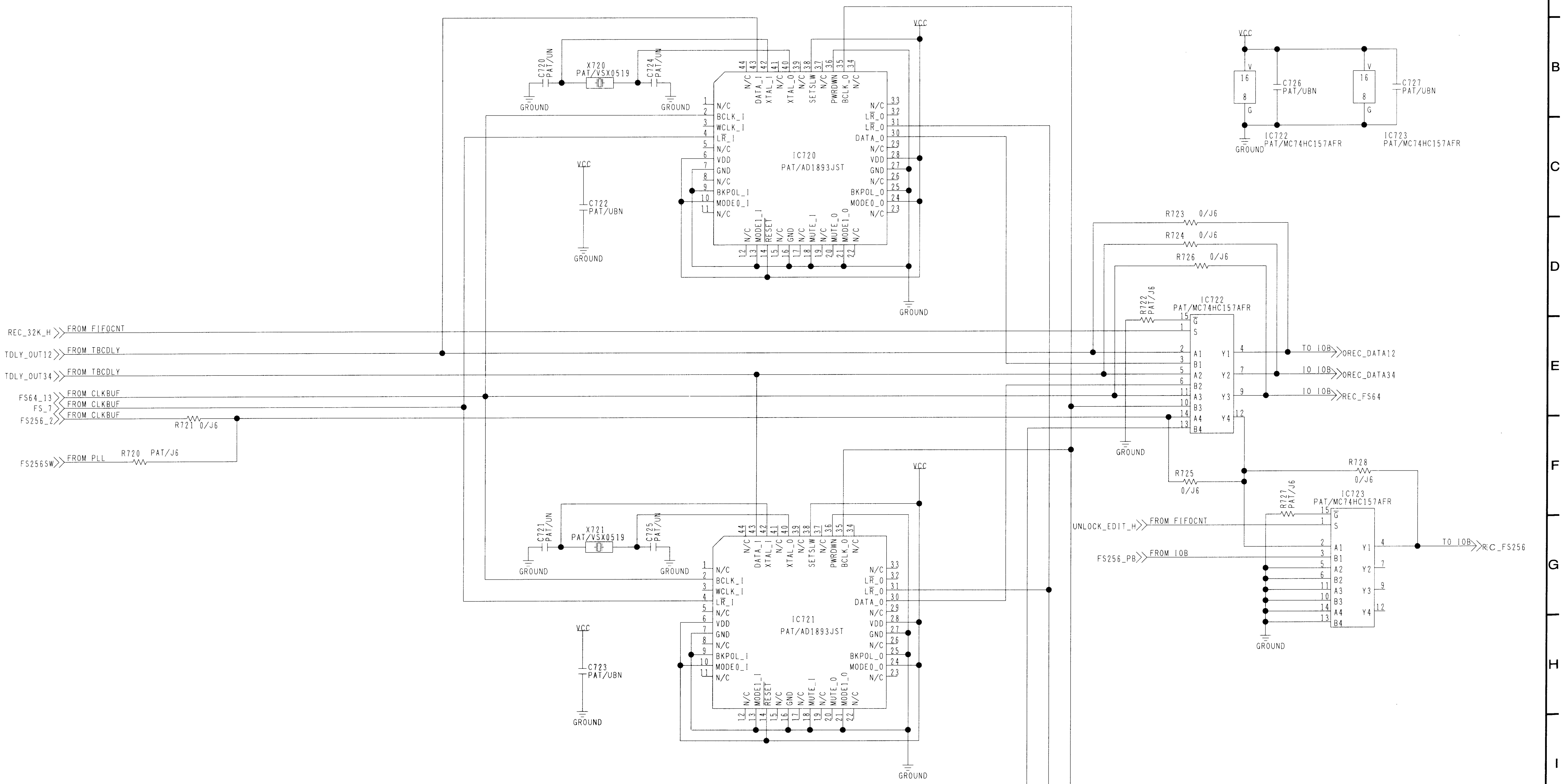
COMPONENT NAME	F7:A PROC(APROC CNT2)	13/21
CIRCUIT BOARD NO.		
VEP84326C		
		SCM179


AV_ADL[0-7]
FROM SYSIO
AV_WR
AV_RD
FROM CLKBUF
AV_ADRS[0-3]
MSUB_CS
NSTD_L
TO P970-21B
IC650
PAT/MC74HC157AFR
INH_A
CK4S
FROM IOB
FROM PLL
GROUND
EE_SW_IN12
TDLY_IN12
EE_SW_OUT12
FROM CNT1
TO TBCDLY
CK4R5_R
CK4R5_V
CK4R5M
TO PLL2
FROM PLL2
EETH_DATA12
EETH_DATA34
FROM CNT2
CK12K_R
CK12K_V
CK12M
FS_0
FS_J1
FS_J2
I_APBFRM2
DREC_FRM
I_APBFRM1
FS256_S
FROM CLKBUF
FROM FIFOCNT
FSPB1 (JUMPER)
FSPB2 (JUMPER)
FS256_PB (JUMPER)
PCON_L
VCC
+3R2V
IC651
EPF10K20TC-4
CP650
CP651
CP652
CP653
TP652
TP653
TP654
TP655
TP656
TP657
TP658
TP659
TP660
TP661
TP662
TP663
TP650
TP651
FROM IC122-16
FROM IC117-10
TO FIFOCNT
MEM_OUT
MSUB_L
P650
PAT/CL619-0002-0
DCLK
NCS
CONF
OE
DATA
GND
IC653
VS13000B
EPC1441PC8
VJ53056308
IS653
IC654
S80725ANDPT1
IC652
MSM41780DJ6
RAM_DATA[0-7]
RAM_ADR[0-10]
C653 0.01/UBN
C654 0.01/UBN
C655 0.01/UBN
C656 0.01/UBN
C657 16V47/EVV
C658 0.01/UBN
C659 0.1/UBN
C650 PAT/UBN
C651 0.01/UBN
C652 0.01/UBN
R704 1000/J6
R702 1000/J6
R703 1000/J6
GROUND

REF: C:650-659
R:650-704
P:650
IC:650-654
IS:653
TP:650-663
CP:650-653

COMPONENT NAME	F7:A PROC(APROC AMEM)	14/21
CIRCUIT BOARD NO.		
VEP84326C		
		SCM180

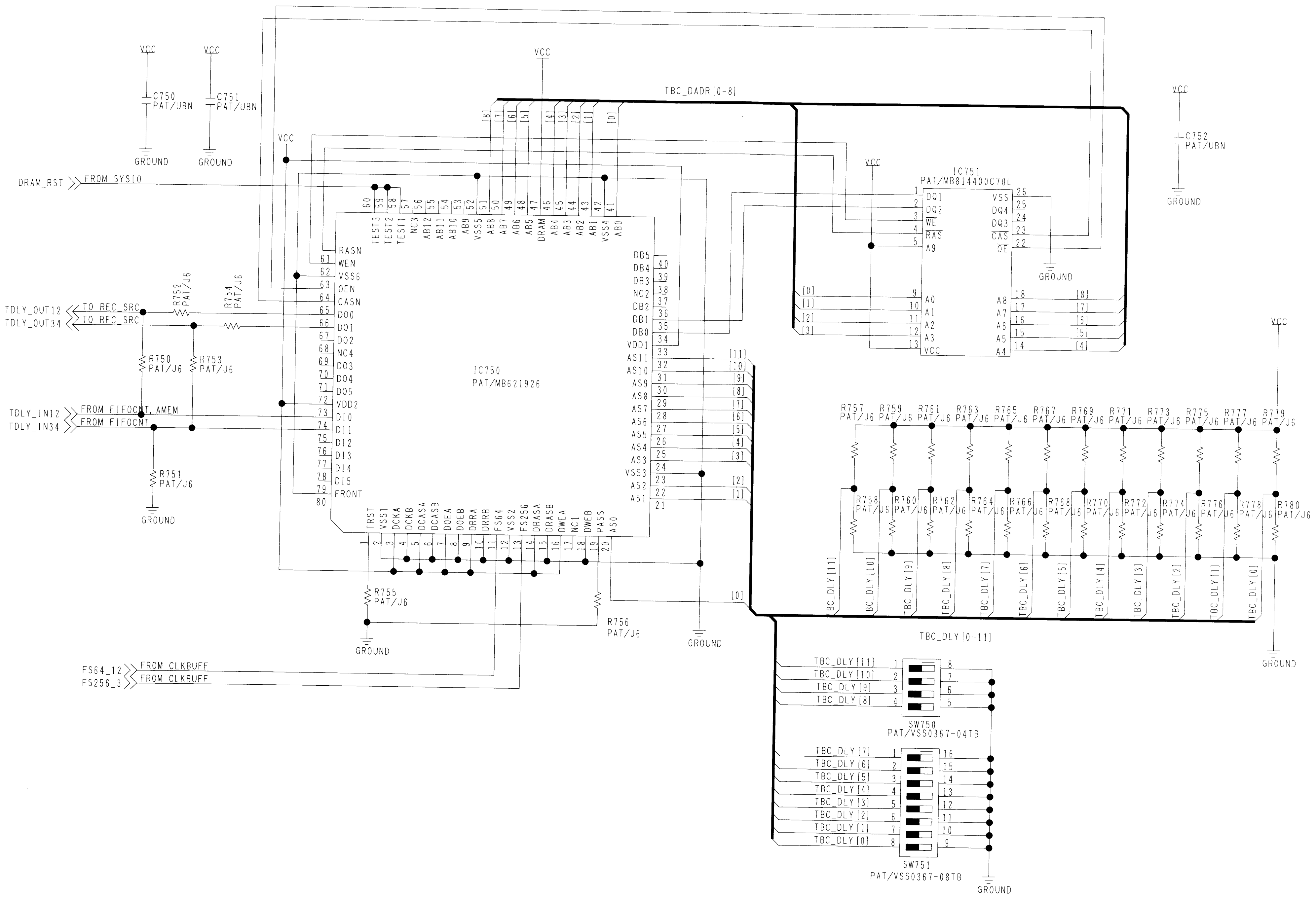
KR4H44(14/21)


IC720
PAT/AD1893JST
IC721
PAT/AD1893JST
IC722
PAT/MC74HC157AFR
IC723
PAT/MC74HC157AFR
X720
PAT/VSX0519
X721
PAT/VSX0519
C720
PAT/UN
C721
PAT/UN
C724
PAT/UN
C725
PAT/UN
C722
PAT/UBN
C723
PAT/UBN
C726
PAT/UBN
C727
PAT/UBN
VCC
GROUND
N/C
DATA_I
XTAL_I
XTAL_O
SETSLW
PWRDWN
BCLK_O
BCLK_I
WCLK_I
LR_I
VDD
GND
BKPOL_I
MODE0_I
MODE1_I
RESET
MUTE_I
MUTE_O
MODE1_O
LR_O
DATA_O
BKPOL_O
MODE0_O
R720 PAT/J6
R721 0/J6
R722 PAT/J6
R723 0/J6
R724 0/J6
R725 0/J6
R726 0/J6
R727 PAT/J6
R728 0/J6
REC_32K_H
FROM FIFOCNT
TDLY_OUT12
FROM TBCDLY
TDLY_OUT34
FROM TBCDLY
FS64_13
FROM CLKBUF
FS_7
FROM CLKBUF
FS256_2
FROM CLKBUF
FS256SW
FROM PLL
FS64_32K
FROM FIFOCNT
FS_32K
FROM FIFOCNT
FS256_32K
FROM PLL
UNLOCK_EDIT_H
FROM FIFOCNT
FS256_PB
FROM IOB
TO IOB
OREC_DATA12
IO IOB
OREC_DATA34
IO IOB
REC_FS64
TO IOB
REC_FS256
G
S
A1
B1
A2
B2
A3
B3
A4
B4
Y1
Y2
Y3
Y4
V
16
8

REF: C:720-727
R:720-728
X:720-721
IC:720-723

COMPONENT NAME	F7:A PROC(APROC REC SRC	15/21
CIRCUIT BOARD NO.		
VEP84326C		
	SCM181	

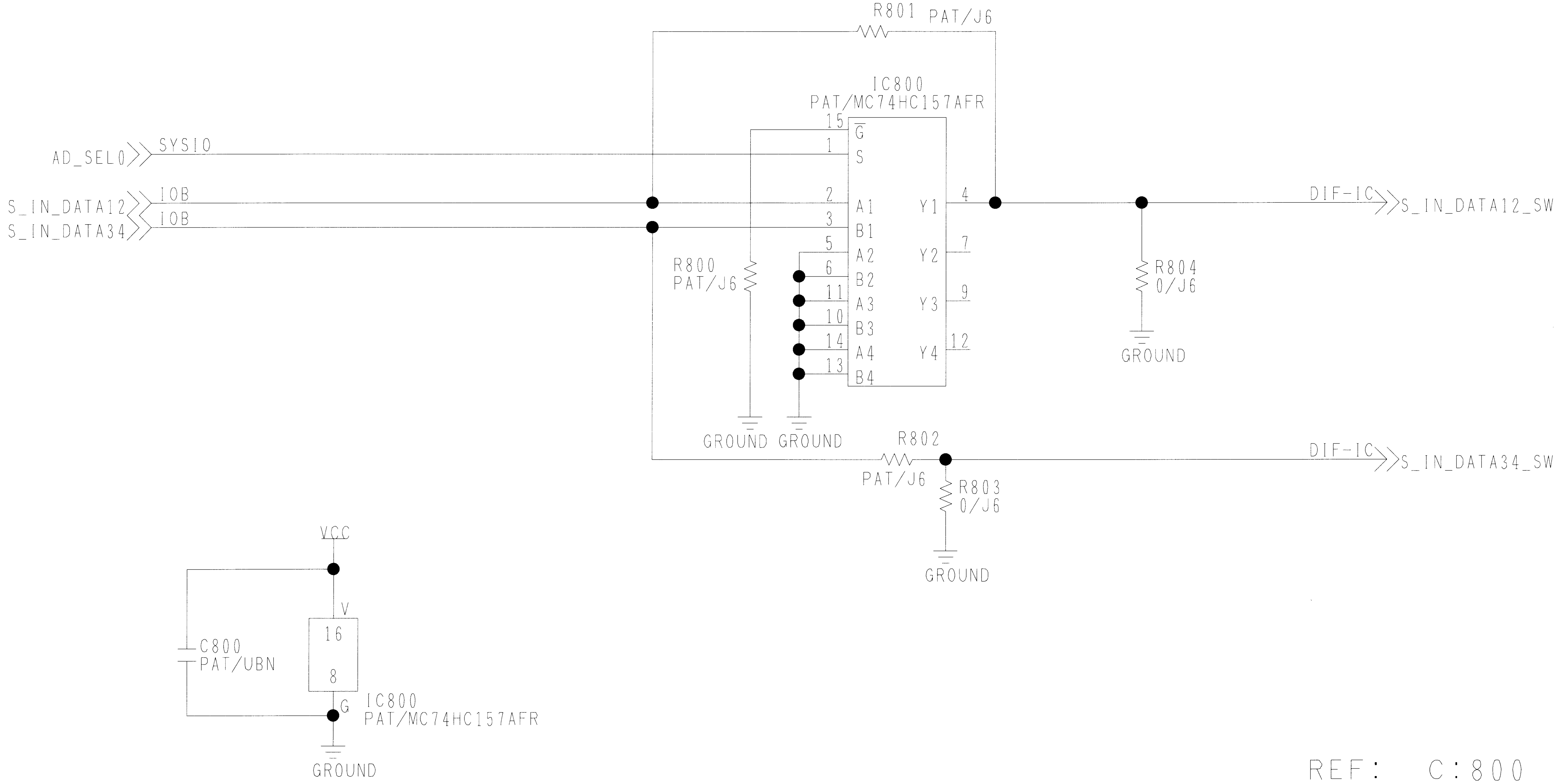
KR4H44(15/21)


VCC
C750
PAT/UBN
C751
PAT/UBN
GROUND
DRAM_RST
FROM SYSIO
TDLY_OUT12
TDLY_OUT34
TO REC_SRC
TO REC_SRC
R752
PAT/J6
R754
PAT/J6
R750
PAT/J6
R753
PAT/J6
TDLY_IN12
TDLY_IN34
FROM FIFOCNT, AMEM
FROM FIFOCNT
R751
PAT/J6
IC750
PAT/MB621926
TEST3 TEST2 TEST1 NC3 AB12 AB11 AB10 AB9 VSS5 AB8 AB7 AB6 AB5 DRAM AB4 AB3 AB2 AB1 VSS4 AB0
RASN WEN VSS6 OEN CASN DO0 DO1 DO2 NC4 DO3 DO4 DO5 VDD2 DI0 DI1 DI2 DI3 DI4 DI5 FRONT
DB5 DB4 DB3 NC2 DB2 DB1 DB0 VDD1 AS11 AS10 AS9 AS8 AS7 AS6 AS5 AS4 AS3 VSS3 AS2 AS1
TRST VSS1 DCKA DCKB DCASA DCASB DOEA DOEB DRRA DRRB FS64 VSS2 FS256 DRASA DRASB DWEA NC1 DWEB PASS AS0
R755
PAT/J6
R756
PAT/J6
FS64_12
FS256_3
FROM CLKBUFF
FROM CLKBUFF
TBC_DADR[0-8]
IC751
PAT/MB814400C70L
DQ1 DQ2 WE RAS A9 A0 A1 A2 A3 VCC
VSS DQ4 DQ3 CAS OE A8 A7 A6 A5 A4
C752
PAT/UBN
R757 R759 R761 R763 R765 R767 R769 R771 R773 R775 R777 R779
R758 R760 R762 R764 R766 R768 R770 R772 R774 R776 R778 R780
PAT/J6
TBC_DLY[11] TBC_DLY[10] TBC_DLY[9] TBC_DLY[8] TBC_DLY[7] TBC_DLY[6] TBC_DLY[5] TBC_DLY[4] TBC_DLY[3] TBC_DLY[2] TBC_DLY[1] TBC_DLY[0]
TBC_DLY[0-11]
SW750
PAT/VSS0367-04TB
SW751
PAT/VSS0367-08TB

REF: C:750-752
R:750-780
IC:750-751
SW:750-751

COMPONENT NAME	F7:A PROC(APROC TBCDLY)	16/21
CIRCUIT BOARD NO.		
VEP84326C		
		SCM182

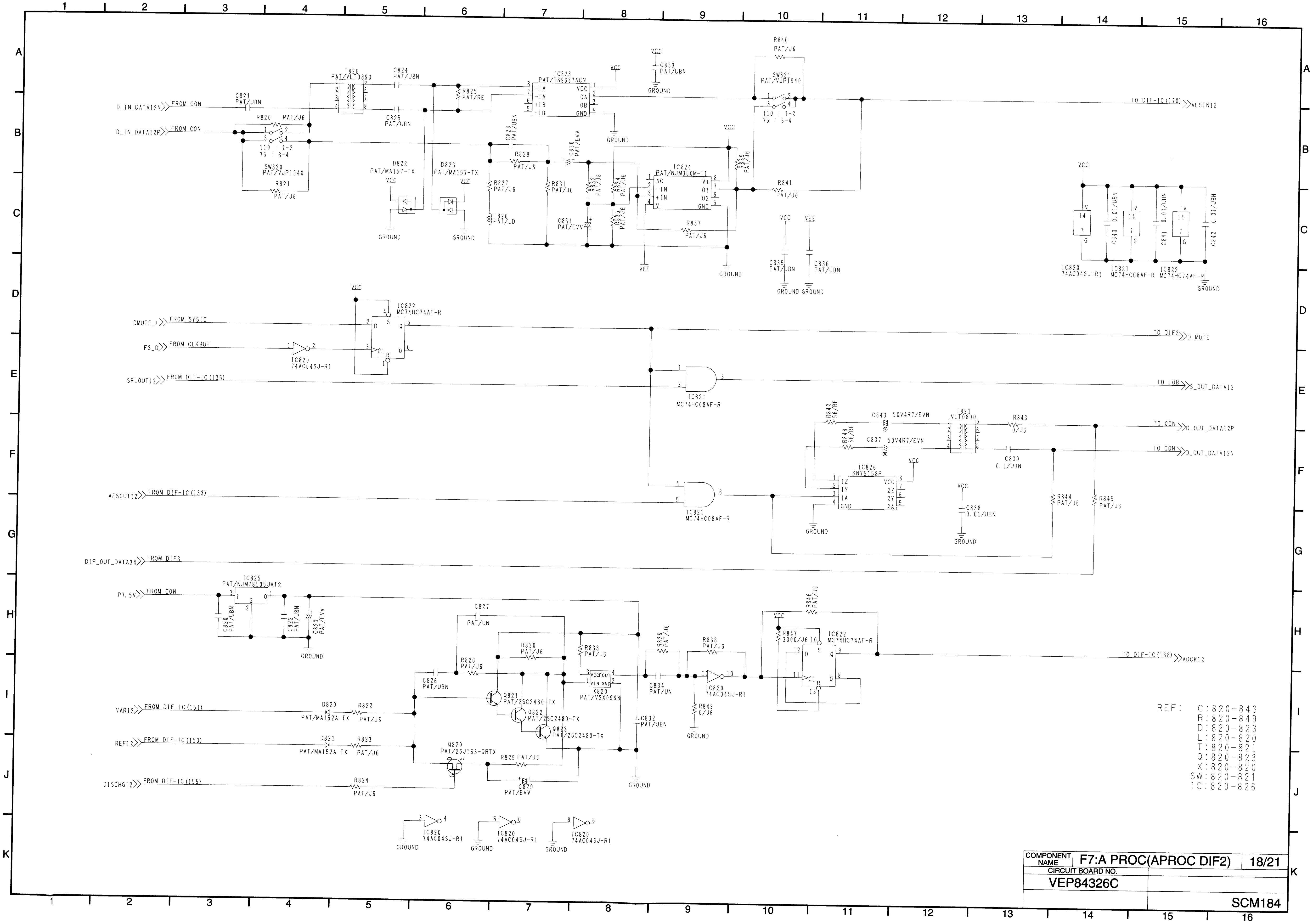
KR4H44(16/21)


R801 PAT/J6
IC800
PAT/MC74HC157AFR
AD_SEL0
SYSIO
S_IN_DATA12
S_IN_DATA34
IOB
IOB
15 G
1 S
2 A1
3 B1
5 A2
6 B2
11 A3
10 B3
14 A4
13 B4
Y1 4
Y2 7
Y3 9
Y4 12
R800
PAT/J6
GROUND
GROUND
R804
0/J6
GROUND
DIF-IC
S_IN_DATA12_SW
R802
PAT/J6
R803
0/J6
GROUND
DIF-IC
S_IN_DATA34_SW
VCC
V
16
8
G
C800
PAT/UBN
IC800
PAT/MC74HC157AFR
GROUND

REF: C:800
R:800-804
IC:800

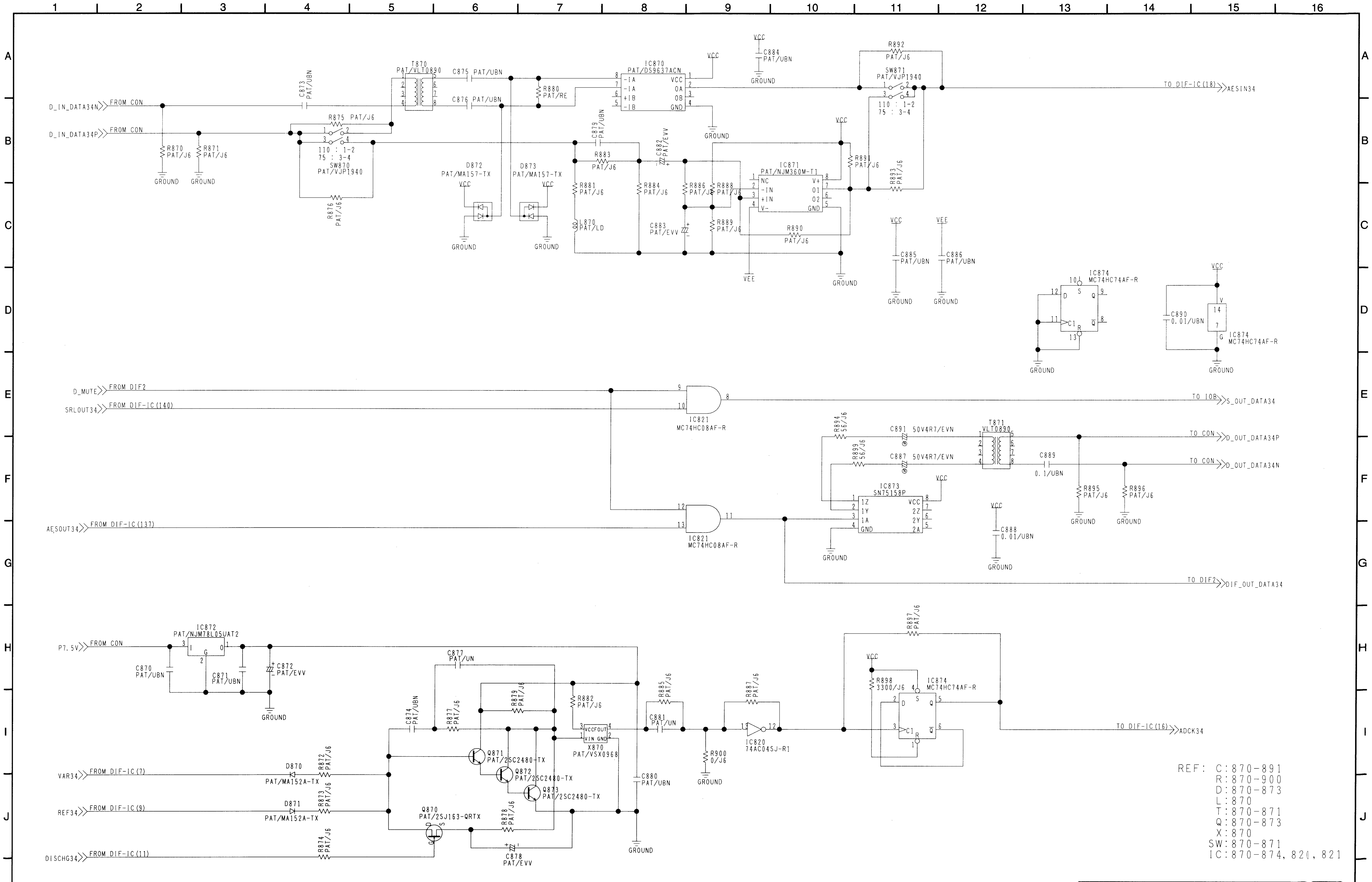
COMPONENT NAME	F7:A PROC(APROC DIF1)	17/21
CIRCUIT BOARD NO.		
VEP84326C		
		SCM183

KR4H44(17/21)


D_IN_DATA12N
FROM CON
D_IN_DATA12P
FROM CON
C821 PAT/UBN
R820 PAT/J6
110 : 1-2
75 : 3-4
SW820 PAT/VJP1940
R821 PAT/J6
T820 PAT/VLT0890
C824 PAT/UBN
C825 PAT/UBN
R825 PAT/RE
D822 PAT/MA157-TX
D823 PAT/MA157-TX
VCC
GROUND
IC823 PAT/DS9637ACN
C828 PAT/UBN
R828 PAT/J6
R827 PAT/J6
L820 PAT/LD
R831 PAT/J6
C830 PAT/EVV
R832 PAT/J6
C831 PAT/EVV
R834 PAT/J6
R835 PAT/J6
IC824 PAT/NJM360M-T1
R837 PAT/J6
VEE
C833 PAT/UBN
R839 PAT/J6
R840 PAT/J6
SW821 PAT/VJP1940
R841 PAT/J6
C835 PAT/UBN
C836 PAT/UBN
TO DIF-IC(170)
AESIN12
IC820 74AC04SJ-R1
IC821 74HC08AF-R
IC822 MC74HC74AF-R
C840 0.01/UBN
C841 0.01/UBN
C842 0.01/UBN
DMUTE_L
FROM SYS10
FS_D
FROM CLKBUF
IC822 MC74HC74AF-R
IC820 74AC04SJ-R1
TO DIF3
D_MUTE
SRLOUT12
FROM DIF-IC(135)
IC821 MC74HC08AF-R
TO IOB
S_OUT_DATA12
R842 56/RE
R848 56/RE
C843 50V4R7/EVN
C837 50V4R7/EVN
T821 VLT0890
R843 0/J6
C839 0.1/UBN
TO CON
D_OUT_DATA12P
TO CON
D_OUT_DATA12N
IC826 SN75158P
C838 0.01/UBN
R844 PAT/J6
R845 PAT/J6
AESOUT12
FROM DIF-IC(133)
IC821 MC74HC08AF-R
DIF_OUT_DATA34
FROM DIF3
P7.5V
FROM CON
IC825 PAT/NJM78L05UAT2
C820 PAT/UBN
C822 PAT/UBN
C823 PAT/EVV
C827 PAT/UN
R830 PAT/J6
R833 PAT/J6
C826 PAT/UBN
R826 PAT/J6
Q821 PAT/2SC2480-TX
Q822 PAT/2SC2480-TX
Q823 PAT/2SC2480-TX
X820 PAT/VSX0968
C832 PAT/UBN
R836 PAT/J6
C834 PAT/UN
R838 PAT/J6
IC820 74AC04SJ-R1
R849 0/J6
R846 PAT/J6
R847 3300/J6
IC822 MC74HC74AF-R
TO DIF-IC(168)
ADCK12
VAR12
FROM DIF-IC(151)
D820 PAT/MA152A-TX
R822 PAT/J6
REF12
FROM DIF-IC(153)
D821 PAT/MA152A-TX
R823 PAT/J6
Q820 PAT/2SJ163-QRTX
R829 PAT/J6
C829 PAT/EVV
DISCHG12
FROM DIF-IC(155)
R824 PAT/J6
IC820 74AC04SJ-R1

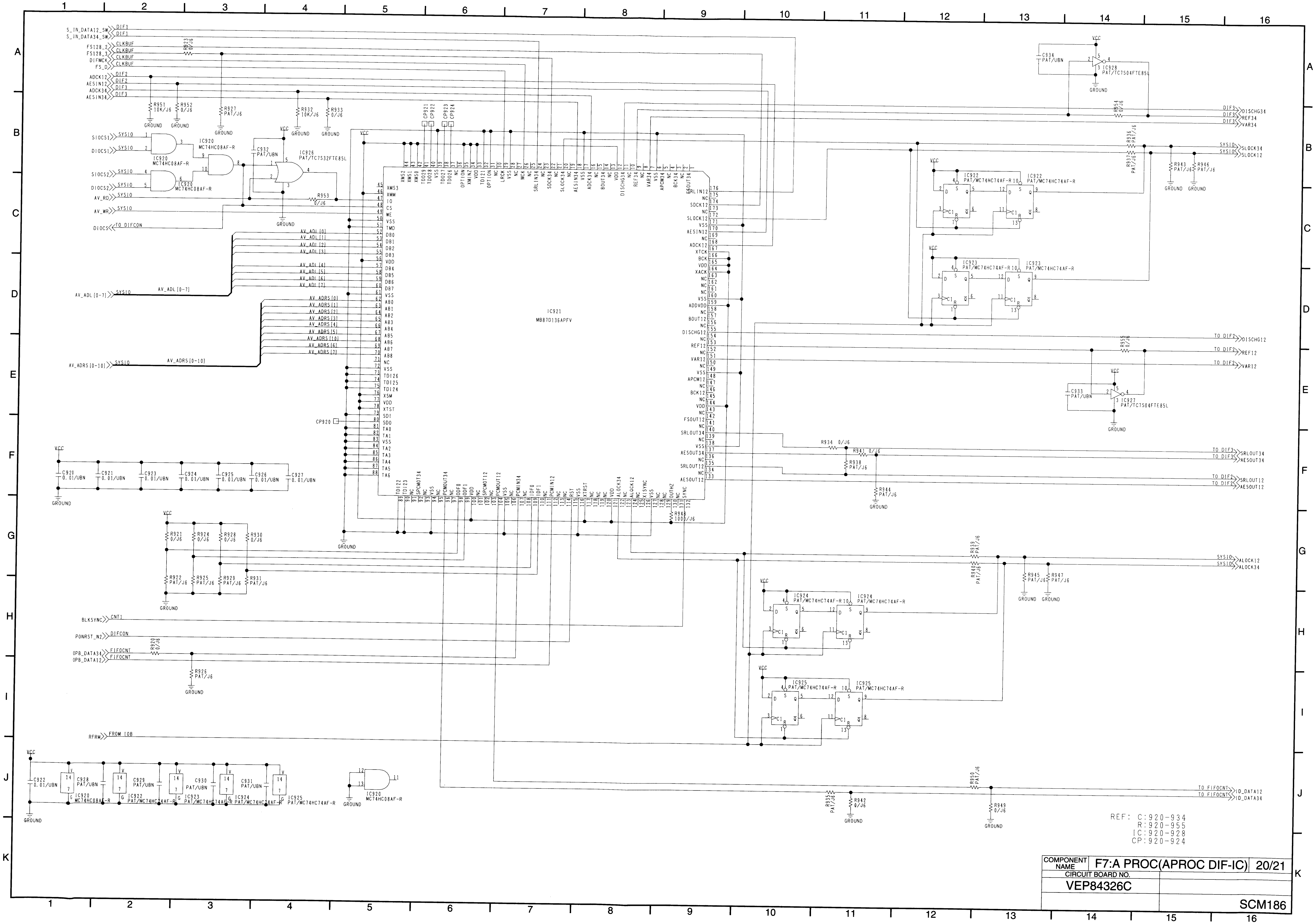
REF: C:820-843
R:820-849
D:820-823
L:820-820
T:820-821
Q:820-823
X:820-820
SW:820-821
IC:820-826

COMPONENT NAME	F7:A PROC(APROC DIF2)	18/21
CIRCUIT BOARD NO.		
VEP84326C		
		SCM184


D_IN_DATA34N FROM CON
D_IN_DATA34P FROM CON
C873 PAT/UBN
R870 PAT/J6
R871 PAT/J6
GROUND
R875 PAT/J6
110 : 1-2
75 : 3-4
SW870 PAT/VJP1940
R876 PAT/J6
T870 PAT/VLT0890
C875 PAT/UBN
C876 PAT/UBN
D872 PAT/MA157-TX
D873 PAT/MA157-TX
VCC
R880 PAT/RE
IC870 PAT/DS9637ACN
-IA
-IA
+IB
-IB
VCC
OA
OB
GND
C879 PAT/UBN
R883 PAT/J6
R881 PAT/J6
L870 PAT/LD
R884 PAT/J6
C882 PAT/EVV
C883 PAT/EVV
R886 PAT/J6
R888 PAT/J6
R889 PAT/J6
IC871 PAT/NJM360M-T1
NC
-IN
+IN
V-
V+
O1
O2
GND
R890 PAT/J6
VEE
C884 PAT/UBN
R891 PAT/J6
R892 PAT/J6
SW871 PAT/VJP1940
R893 PAT/J6
TO DIF-IC(18) AESIN34
C885 PAT/UBN
C886 PAT/UBN
IC874 MC74HC74AF-R
C890 0.01/UBN
D_MUTE FROM DIF2
SRLOUT34 FROM DIF-IC(140)
IC821 MC74HC08AF-R
TO IOB S_OUT_DATA34
R894 56/J6
R899 56/J6
C891 50V4R7/EVN
C887 50V4R7/EVN
T871 VLT0890
C889 0.1/UBN
TO CON D_OUT_DATA34P
TO CON D_OUT_DATA34N
IC873 SN75158P
1Z
1Y
1A
GND
VCC
2Z
2Y
2A
R895 PAT/J6
R896 PAT/J6
C888 0.01/UBN
AESOUT34 FROM DIF-IC(137)
TO DIF2 DIF_OUT_DATA34
P7.5V FROM CON
IC872 PAT/NJM78L05UAT2
C870 PAT/UBN
C871 PAT/UBN
C872 PAT/EVV
C877 PAT/UN
C874 PAT/UBN
R877 PAT/J6
R879 PAT/J6
R882 PAT/J6
X870 PAT/VSX0968
VCCFOUT
VIN GND
Q871 PAT/2SC2480-TX
Q872 PAT/2SC2480-TX
Q873 PAT/2SC2480-TX
Q870 PAT/2SJ163-QRTX
R878 PAT/J6
C878 PAT/EVV
VAR34 FROM DIF-IC(7)
REF34 FROM DIF-IC(9)
DISCHG34 FROM DIF-IC(11)
D870 PAT/MA152A-TX
D871 PAT/MA152A-TX
R872 PAT/J6
R873 PAT/J6
R874 PAT/J6
C880 PAT/UBN
R885 PAT/J6
C881 PAT/UN
R900 0/J6
R887 PAT/J6
IC820 74AC04SJ-R1
R897 PAT/J6
R898 3300/J6
TO DIF-IC(16) ADCK34
REF: C:870-891
R:870-900
D:870-873
L:870
T:870-871
Q:870-873
X:870
SW:870-871
IC:870-874, 820, 821

COMPONENT NAME	F7:A PROC(APROC DIF3)	19/21
CIRCUIT BOARD NO.		
VEP84326C		
		SCM185

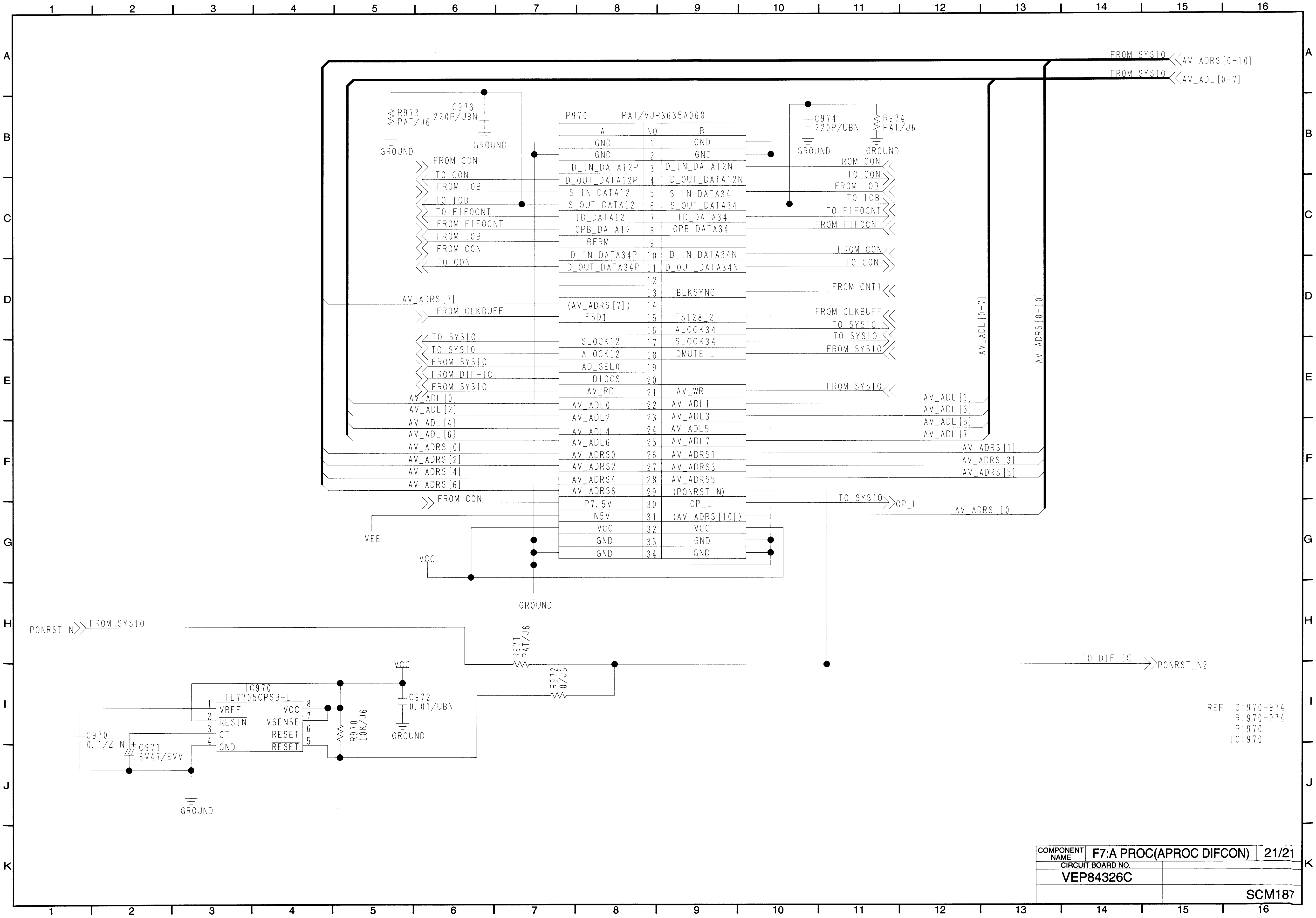
KR4H44(19/21)


S_IN_DATA12_SW
S_IN_DATA34_SW
FS128_2
FS128_3
DIFMCK
FS_D
ADCK12
AESIN12
ADCK34
AESIN34
DIF1
CLKBUF
DIF2
DIF3
R951 10K/J6
R952 0/J6
R927 PAT/J6
R932 10K/J6
R933 0/J6
R923 0/J6
SIOCS1
DIOCS1
SIOCS2
DIOCS2
AV_RD
AV_WR
DIOCS
SYSIO
TO DIFCON
IC920 MC74HC08AF-R
IC926 PAT/TC7S32FTE85L
C932 PAT/UBN
R953 0/J6
AV_ADL[0-7]
AV_ADRS[0-10]
CP920
CP921
CP922
CP923
CP924
IC921
MB87D136APFV
VCC
GROUND
C921 0.01/UBN
C923 0.01/UBN
C924 0.01/UBN
C925 0.01/UBN
C926 0.01/UBN
C927 0.01/UBN
R921 0/J6
R924 0/J6
R928 0/J6
R930 0/J6
R922 PAT/J6
R925 PAT/J6
R929 PAT/J6
R931 PAT/J6
R948 100Ω/J6
BLKSYNC
PONRST_N2
OPB_DATA34
OPB_DATA12
CNT1
DIFCON
FIFOCNT
R920 0/J6
R926 PAT/J6
RFRM
FROM IOB
C922 0.01/UBN
C928 PAT/UBN
C929 PAT/UBN
C930 PAT/UBN
C931 PAT/UBN
IC922 PAT/MC74HC74AF-R
IC923 PAT/MC74HC74AF-R
IC924 PAT/MC74HC74AF-R
IC925 PAT/MC74HC74AF-R
C934 PAT/UBN
IC928 PAT/TC7S04FTE85L
R954 0/J6
DISCHG34
REF34
VAR34
R936 PAT/J6
R937 PAT/J6
R943 PAT/J6
R946 PAT/J6
SLOCK34
SLOCK12
TO DIF2
DISCHG12
REF12
VAR12
R955 0/J6
C933 PAT/UBN
IC927 PAT/TC7S04FTE85L
R934 0/J6
R941 0/J6
R938 PAT/J6
R944 PAT/J6
TO DIF3
SRLOUT34
AESOUT34
SRLOUT12
AESOUT12
R939 PAT/J6
R940 PAT/J6
R945 PAT/J6
R947 PAT/J6
ALOCK12
ALOCK34
R950 PAT/J6
R935 PAT/J6
R942 0/J6
R949 0/J6
TO FIFOCNT
ID_DATA12
ID_DATA34

REF: C:920-934
R:920-955
IC:920-928
CP:920-924

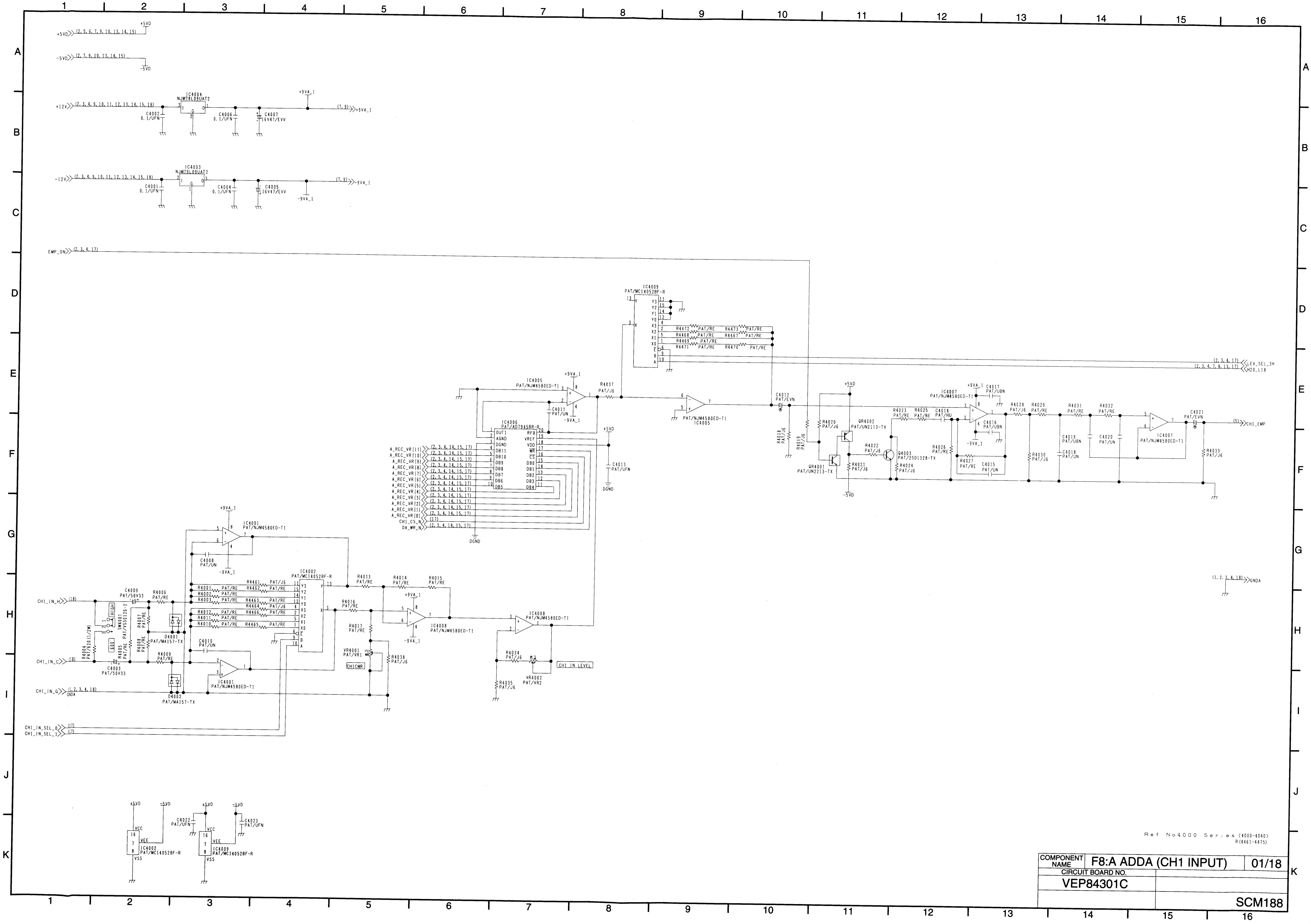
COMPONENT NAME	F7:A PROC(APROC DIF-IC)	20/21
CIRCUIT BOARD NO.		
VEP84326C		
		SCM186

KR4H44(20/21)


FROM SYSIO
AV_ADRS[0-10]
FROM SYSIO
AV_ADL[0-7]
R973 PAT/J6
C973 220P/UBN
GROUND
P970 PAT/VJP3635A068
C974 220P/UBN
R974 PAT/J6
A
NO
B
GND
D_IN_DATA12P
D_OUT_DATA12P
S_IN_DATA12
S_OUT_DATA12
ID_DATA12
OPB_DATA12
RFRM
D_IN_DATA34P
D_OUT_DATA34P
(AV_ADRS[7])
FSD1
SLOCK12
ALOCK12
AD_SEL0
DIOCS
AV_RD
AV_ADL0
AV_ADL2
AV_ADL4
AV_ADL6
AV_ADRS0
AV_ADRS2
AV_ADRS4
AV_ADRS6
P7.5V
N5V
VCC
D_IN_DATA12N
D_OUT_DATA12N
S_IN_DATA34
S_OUT_DATA34
ID_DATA34
OPB_DATA34
D_IN_DATA34N
D_OUT_DATA34N
BLKSYNC
FS128_2
ALOCK34
SLOCK34
DMUTE_L
AV_WR
AV_ADL1
AV_ADL3
AV_ADL5
AV_ADL7
AV_ADRS1
AV_ADRS3
AV_ADRS5
(PONRST_N)
OP_L
(AV_ADRS[10])
FROM CON
TO CON
FROM IOB
TO IOB
TO FIFOCNT
FROM FIFOCNT
FROM CLKBUFF
TO SYSIO
FROM SYSIO
FROM DIF-IC
FROM CNT1
AV_ADRS[7]
AV_ADL[0]
AV_ADL[2]
AV_ADL[4]
AV_ADL[6]
AV_ADRS[0]
AV_ADRS[2]
AV_ADRS[4]
AV_ADRS[6]
AV_ADL[1]
AV_ADL[3]
AV_ADL[5]
AV_ADL[7]
AV_ADRS[1]
AV_ADRS[3]
AV_ADRS[5]
AV_ADRS[10]
AV_ADL[0-7]
AV_ADRS[0-10]
VEE
VCC
GROUND
PONRST_N
FROM SYSIO
R971 PAT/J6
R972 0/J6
TO DIF-IC
PONRST_N2
IC970
TL7705CPSB-L
VREF
RESIN
CT
GND
VCC
VSENSE
RESET
RESET
R970 10K/J6
C972 0.01/UBN
C970 0.1/ZFN
C971 6V47/EVV
REF C:970-974
R:970-974
P:970
IC:970

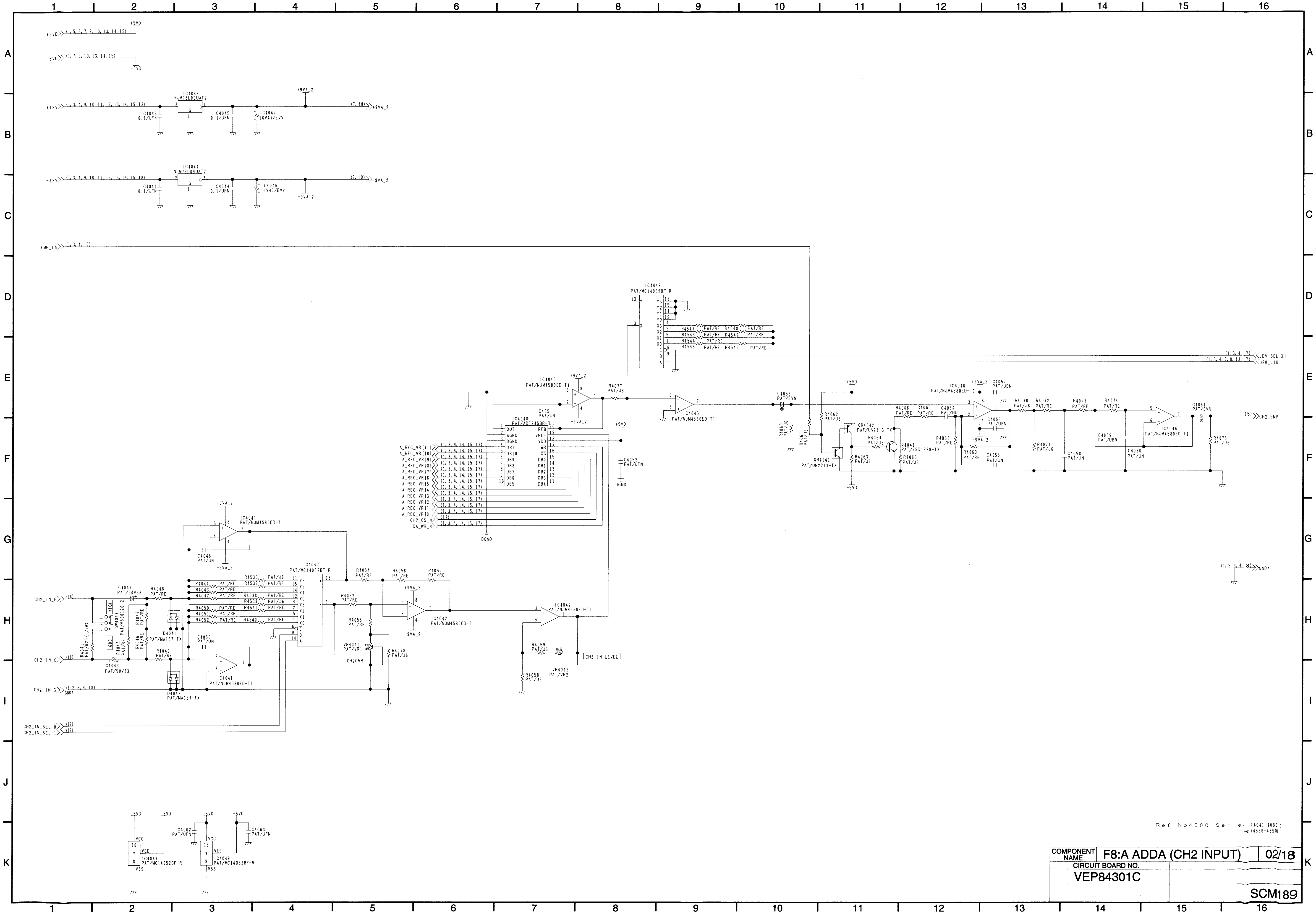
COMPONENT NAME	F7:A PROC(APROC DIFCON)	21/21
CIRCUIT BOARD NO.		
VEP84326C		
		SCM187

KR4H44(21/21)


+5VD
(2, 5, 6, 7, 9, 10, 13, 14, 15)
-5VD
(2, 7, 9, 10, 13, 14, 15)
+12V
(2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 18)
IC4004
NJM78L09UAT2
C4002
0. 1/UFN
C4006
0. 1/UFN
C4007
16V47/EVV
+9VA_1
(7, 9)
-12V
IC4003
NJM79L09UAT2
C4001
0. 1/UFN
C4004
0. 1/UFN
C4005
16V47/EVV
-9VA_1
EMP_ON
(2, 3, 4, 17)
IC4009
PAT/MC14052BF-R
R4472 PAT/RE
R4473 PAT/RE
R4468 PAT/RE
R4467 PAT/RE
R4469 PAT/RE
R4471 PAT/RE
R4470 PAT/RE
LEV_SEL_3H
(2, 3, 4, 7, 8, 13, 17)
H20_L18
IC4005
PAT/NJM4580ED-T1
C4011
PAT/UN
R4037
PAT/J6
IC4006
PAT/AD7945BR-R
OUT1
AGND
DGND
DB11
DB10
DB9
DB8
DB7
DB6
DB5
RFB
VREF
VDD
WR
CS
DB0
DB1
DB2
DB3
DB4
A_REC_VR[11]
A_REC_VR[10]
A_REC_VR[9]
A_REC_VR[8]
A_REC_VR[7]
A_REC_VR[6]
A_REC_VR[5]
A_REC_VR[4]
A_REC_VR[3]
A_REC_VR[2]
A_REC_VR[1]
A_REC_VR[0]
CH1_CS_N
DA_WR_N
(2, 3, 4, 14, 15, 17)
(17)
DGND
C4013
PAT/UFN
C4012
PAT/EVN
R4018
PAT/J6
R4019
PAT/J6
R4020
PAT/J6
QR4002
PAT/UN2113-TX
QR4001
PAT/UN2213-TX
R4021
PAT/J6
R4022
PAT/J6
Q4003
PAT/2SD1328-TX
R4024
PAT/J6
R4023
PAT/RE
R4025
PAT/RE
C4014
PAT/HU
R4026
PAT/RE
R4027
PAT/RE
C4015
PAT/UN
IC4007
PAT/NJM4580ED-T1
C4017
PAT/UBN
C4016
PAT/UBN
R4028
PAT/J6
R4029
PAT/RE
R4030
PAT/J6
C4019
PAT/UBN
C4018
PAT/UN
R4031
PAT/RE
R4032
PAT/RE
C4020
PAT/UN
C4021
PAT/EVN
R4033
PAT/J6
(5)
CH1_EMP
(1, 2, 3, 4, 18)
GNDA
IC4001
PAT/NJM4580ED-T1
C4008
PAT/UN
CH1_IN_H
(18)
C4009
PAT/50V33
R4006
PAT/RE
HIGH
SW4001
PAT/VSS0126-2
600
R4004
PAT/620(1/2W)
R4005
PAT/RE
R4007
PAT/RE
R4008
PAT/RE
D4001
PAT/MA157-TX
CH1_IN_C
C4003
PAT/50V33
R4009
PAT/RE
D4002
PAT/MA157-TX
CH1_IN_G
C4010
PAT/UN
IC4002
PAT/MC14052BF-R
R4461 PAT/J6
R4001 PAT/RE
R4462 PAT/RE
R4002 PAT/RE
R4003 PAT/RE
R4463 PAT/RE
R4464 PAT/J6
R4012 PAT/RE
R4466 PAT/RE
R4011 PAT/RE
R4010 PAT/RE
R4465 PAT/RE
CH1_IN_SEL_0
CH1_IN_SEL_1
R4013
PAT/RE
R4014
PAT/RE
R4015
PAT/RE
R4016
PAT/RE
R4017
PAT/RE
VR4001
PAT/VR1
CH1CMR
R4038
PAT/J6
IC4008
PAT/NJM4580ED-T1
R4034
PAT/J6
VR4002
PAT/VR2
CH1 IN LEVEL
R4035
PAT/J6
+5VD
-5VD
C4022
PAT/UFN
C4023
PAT/UFN
VCC
VEE
VSS
IC4002
PAT/MC14052BF-R
IC4009
PAT/MC14052BF-R

Ref No4000 Series (4000-4040)
R(4461-4475)

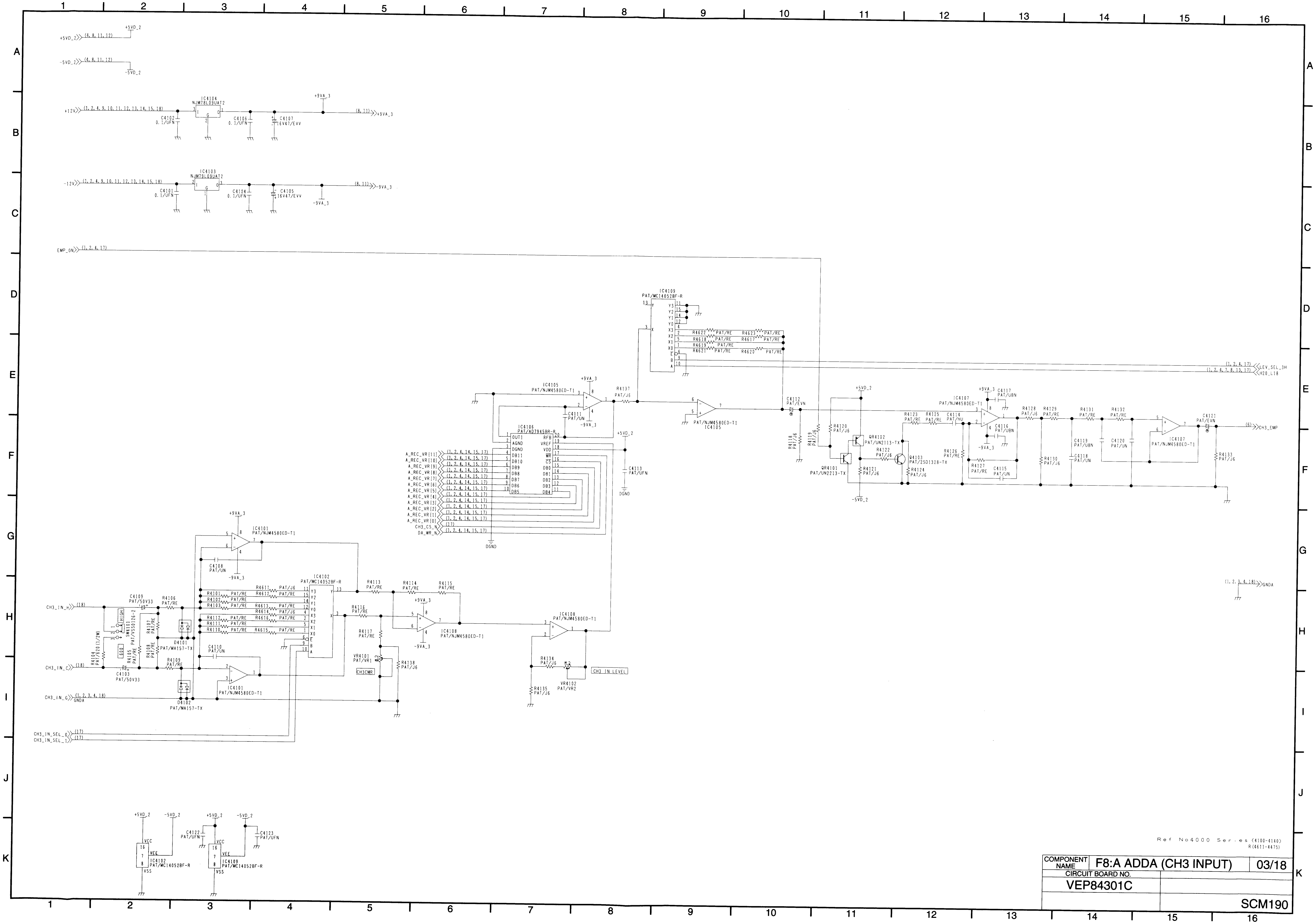
COMPONENT NAME	F8:A ADDA (CH1 INPUT)	01/18
CIRCUIT BOARD NO.		
VEP84301C		
	SCM188	


+5VD (1, 5, 6, 7, 9, 10, 13, 14, 15)
-5VD (1, 7, 9, 10, 13, 14, 15)
+12V (1, 3, 4, 9, 10, 11, 12, 13, 14, 15, 18)
IC4043 NJM78L09UAT2
C4042 0.1/UFN
C4045 0.1/UFN
C4047 16V47/EVV
+9VA_2
(7, 10) +9VA_2
-12V (1, 3, 4, 9, 10, 11, 12, 13, 14, 15, 18)
IC4044 NJM79L09UAT2
C4041 0.1/UFN
C4044 0.1/UFN
C4046 16V47/EVV
-9VA_2
(7, 10) -9VA_2
EMP_ON (1, 3, 4, 17)
IC4049 PAT/MC14052BF-R
R4547 PAT/RE
R4548 PAT/RE
R4543 PAT/RE
R4542 PAT/RE
R4544 PAT/RE
R4546 PAT/RE
R4545 PAT/RE
(1, 3, 4, 17) LEV_SEL_3H
(1, 3, 4, 7, 8, 13, 17) H20_L18
IC4045 PAT/NJM4580ED-T1
R4077 PAT/J6
C4051 PAT/UN
IC4048 PAT/AD7945BR-R
OUT1
AGND
DGND
DB11
DB10
DB9
DB8
DB7
DB6
DB5
RFB
VREF
VDD
WR
CS
DB0
DB1
DB2
DB3
DB4
A_REC_VR[11]
A_REC_VR[10]
A_REC_VR[9]
A_REC_VR[8]
A_REC_VR[7]
A_REC_VR[6]
A_REC_VR[5]
A_REC_VR[4]
A_REC_VR[3]
A_REC_VR[2]
A_REC_VR[1]
A_REC_VR[0]
CH2_CS_N (17)
DA_WR_N (1, 3, 4, 14, 15, 17)
(1, 3, 4, 14, 15, 17)
DGND
C4052 PAT/UFN
+5VD
C4053 PAT/EVN
R4060 PAT/J6
R4061 PAT/J6
R4062 PAT/J6
QR4042 PAT/UN2113-TX
QR4041 PAT/UN2213-TX
R4064 PAT/J6
Q4041 PAT/2SD1328-TX
R4063 PAT/J6
R4065 PAT/J6
-5VD
IC4046 PAT/NJM4580ED-T1
C4057 PAT/UBN
R4066 PAT/RE
R4067 PAT/RE
C4054 PAT/HU
C4056 PAT/UBN
R4068 PAT/RE
R4069 PAT/RE
C4055 PAT/UN
R4070 PAT/J6
R4072 PAT/RE
R4071 PAT/J6
C4058 PAT/UN
R4073 PAT/RE
R4074 PAT/RE
C4059 PAT/UBN
C4060 PAT/UN
C4061 PAT/EVN
R4075 PAT/J6
(5) CH2_EMP
(1, 2, 3, 4, 8) GNDA
IC4041 PAT/NJM4580ED-T1
C4048 PAT/UN
IC4047 PAT/MC14052BF-R
R4536 PAT/J6
R4537 PAT/RE
R4538 PAT/RE
R4539 PAT/J6
R4541 PAT/RE
R4540 PAT/RE
R4044 PAT/RE
R4043 PAT/RE
R4042 PAT/RE
R4050 PAT/RE
R4051 PAT/RE
R4052 PAT/RE
CH2_IN_H (18)
C4049 PAT/50V33
R4048 PAT/RE
HIGH
SW4041 PAT/VSS0126-2
600
R4041 PAT/620 (1/2W)
R4045 PAT/RE
R4047 PAT/RE
R4046 PAT/RE
D4041 PAT/MA157-TX
CH2_IN_C (18)
C4043 PAT/50V33
R4049 PAT/RE
C4050 PAT/UN
CH2_IN_G (1, 2, 3, 4, 18) GNDA
D4042 PAT/MA157-TX
CH2_IN_SEL_0 (17)
CH2_IN_SEL_1 (17)
R4054 PAT/RE
R4056 PAT/RE
R4057 PAT/RE
R4053 PAT/RE
IC4042 PAT/NJM4580ED-T1
R4055 PAT/RE
VR4041 PAT/VR1
CH2CMR
R4078 PAT/J6
R4059 PAT/J6
VR4042 PAT/VR2
R4058 PAT/J6
CH2 IN LEVEL
VCC
VEE
VSS
IC4047 PAT/MC14052BF-R
C4062 PAT/UFN
IC4049 PAT/MC14052BF-R
C4063 PAT/UFN

Ref No4000 Series (4041-4080)
R (4536-4550)

COMPONENT NAME	F8:A ADDA (CH2 INPUT)	02/18
CIRCUIT BOARD NO.		
VEP84301C		
	SCM189	

KR4H35(2/18)

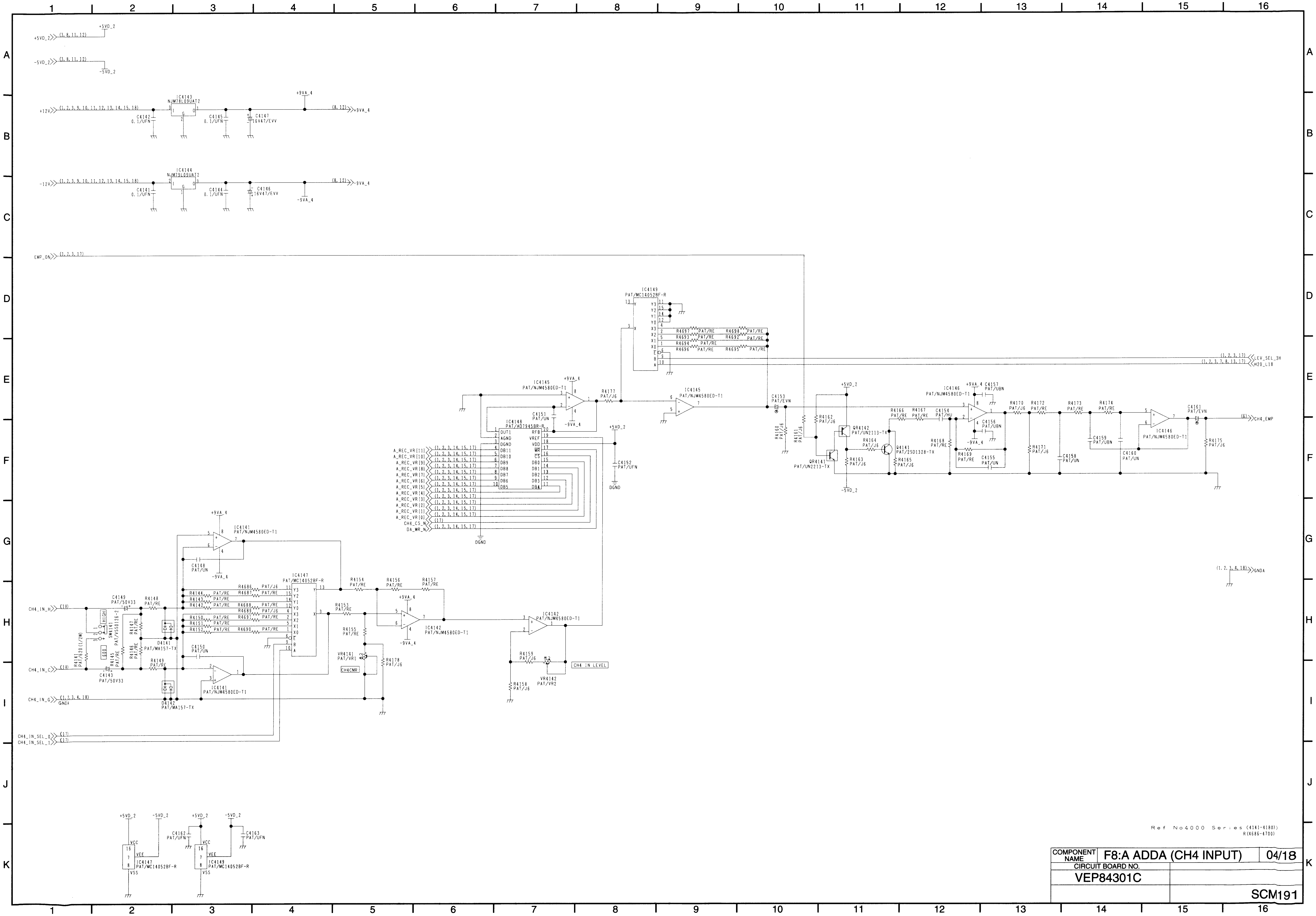

+5VD_2
-5VD_2
+12V
-12V
+9VA_3
-9VA_3
IC4104
NJM78L09UAT2
IC4103
NJM79L09UAT2
C4102 0.1/UFN
C4106 0.1/UFN
C4107 16V47/EVV
C4101 0.1/UFN
C4104 0.1/UFN
C4105 16V47/EVV
EMP_ON
IC4109 PAT/MC14052BF-R
IC4105 PAT/NJM4580ED-T1
IC4106 PAT/AD7945BR-R
R4137 PAT/J6
C4111 PAT/UN
C4113 PAT/UFN
DGND
A_REC_VR[11]
A_REC_VR[10]
A_REC_VR[9]
A_REC_VR[8]
A_REC_VR[7]
A_REC_VR[6]
A_REC_VR[5]
A_REC_VR[4]
A_REC_VR[3]
A_REC_VR[2]
A_REC_VR[1]
A_REC_VR[0]
CH3_CS_N
DA_WR_N
LEV_SEL_3H
H20_L18
C4132 PAT/EVN
R4118
R4119
R4120 PAT/J6
R4121 PAT/J6
QR4101 PAT/UN2213-TX
QR4102 PAT/UN2113-TX
Q4103 PAT/2SD1328-TX
R4122 PAT/J6
R4123 PAT/RE
R4124 PAT/J6
R4125 PAT/RE
R4126 PAT/RE
R4127 PAT/RE
C4114 PAT/HU
C4115 PAT/UN
C4116 PAT/UBN
C4117 PAT/UBN
IC4107 PAT/NJM4580ED-T1
R4128 PAT/J6
R4129 PAT/RE
R4130 PAT/J6
R4131 PAT/RE
R4132 PAT/RE
R4133 PAT/J6
C4118 PAT/UN
C4119 PAT/UBN
C4120 PAT/UN
C4121 PAT/EVN
CH3_EMP
GNDA
IC4101 PAT/NJM4580ED-T1
C4108 PAT/UN
IC4102 PAT/MC14052BF-R
R4113 PAT/RE
R4114 PAT/RE
R4115 PAT/RE
R4116 PAT/RE
R4117 PAT/RE
VR4101 PAT/VR1
CH3CMR
R4138 PAT/J6
IC4108 PAT/NJM4580ED-T1
R4134 PAT/J6
R4135 PAT/J6
VR4102 PAT/VR2
CH3 IN LEVEL
CH3_IN_H
CH3_IN_C
CH3_IN_G
C4109 PAT/50V33
C4103 PAT/50V33
SW4101 PAT/VSS0126-2
HIGH
600
R4104 PAT/E20(1/2W)
R4105 PAT/RE
R4106 PAT/RE
R4107 PAT/RE
R4108 PAT/RE
R4109 PAT/RE
D4101 PAT/MA157-TX
D4102 PAT/MA157-TX
C4110 PAT/UN
CH3_IN_SEL_0
CH3_IN_SEL_1
C4122 PAT/UFN
C4123 PAT/UFN
IC4102 PAT/MC14052BF-R
IC4109 PAT/MC14052BF-R
VCC
VEE
VSS

Ref No4000 Series (4100-4140)
R(4611-4475)

COMPONENT NAME	F8:A ADDA (CH3 INPUT)	03/18
CIRCUIT BOARD NO.		
VEP84301C		
		SCM190

KB4H35(3/18)

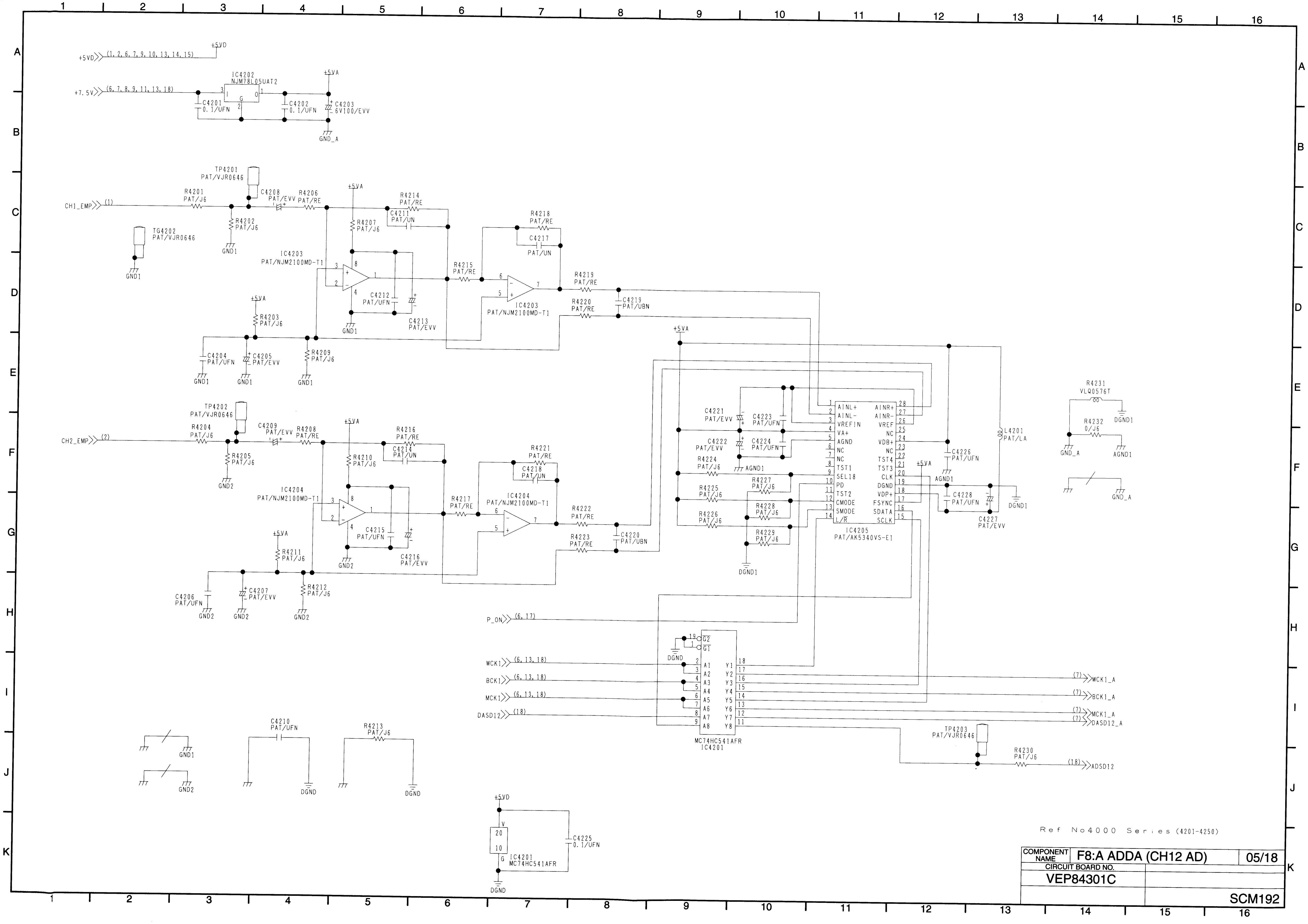
KH4H35(4/18)



+5VD_2 (3, 8, 11, 12) +5VD_2
-5VD_2 (3, 8, 11, 12) -5VD_2
+12V (1, 2, 3, 9, 10, 11, 12, 13, 14, 15, 18)
IC4143 NJM78L09UAT2
C4142 0.1/UFN
C4145 0.1/UFN
C4147 16V47/EVV
+9VA_4
(8, 12) +9VA_4
-12V (1, 2, 3, 9, 10, 11, 12, 13, 14, 15, 18)
IC4144 NJM79L09UAT2
C4141 0.1/UFN
C4144 0.1/UFN
C4146 16V47/EVV
-9VA_4
(8, 12) -9VA_4
EMP_ON (1, 2, 3, 17)
IC4149 PAT/MC14052BF-R
R4697 PAT/RE
R4698 PAT/RE
R4693 PAT/RE
R4692 PAT/RE
R4694 PAT/RE
R4696 PAT/RE
R4695 PAT/RE
(1, 2, 3, 17) LEV_SEL_3H
(1, 2, 3, 7, 8, 13, 17) H20_L18
IC4145 PAT/NJM4580ED-T1
R4177 PAT/J6
C4151 PAT/UN
IC4148 PAT/AD7945BR-R
OUT1 AGND DGND DB11 DB10 DB9 DB8 DB7 DB6 DB5
RFB VREF VDD WR CS DB0 DB1 DB2 DB3 DB4
+5VD_2
C4152 PAT/UFN
DGND
A_REC_VR[11] (1, 2, 3, 14, 15, 17)
A_REC_VR[10] (1, 2, 3, 14, 15, 17)
A_REC_VR[9] (1, 2, 3, 14, 15, 17)
A_REC_VR[8] (1, 2, 3, 14, 15, 17)
A_REC_VR[7] (1, 2, 3, 14, 15, 17)
A_REC_VR[6] (1, 2, 3, 14, 15, 17)
A_REC_VR[5] (1, 2, 3, 14, 15, 17)
A_REC_VR[4] (1, 2, 3, 14, 15, 17)
A_REC_VR[3] (1, 2, 3, 14, 15, 17)
A_REC_VR[2] (1, 2, 3, 14, 15, 17)
A_REC_VR[1] (1, 2, 3, 14, 15, 17)
A_REC_VR[0] (1, 2, 3, 14, 15, 17)
CH4_CS_N (17)
DA_WR_N (1, 2, 3, 14, 15, 17)
DGND
C4153 PAT/EVN
R4160 PAT/J6
R4161 PAT/J6
R4162 PAT/J6
+5VD_2
QR4142 PAT/UN2113-TX
QR4141 PAT/UN2213-TX
R4163 PAT/J6
-5VD_2
R4164 PAT/J6
Q4141 PAT/2SD1328-TX
R4165 PAT/J6
R4166 PAT/RE
R4167 PAT/RE
C4154 PAT/HU
R4168 PAT/RE
IC4146 PAT/NJM4580ED-T1
+9VA_4 C4157 PAT/UBN
C4156 PAT/UBN
-9VA_4
R4169 PAT/RE
C4155 PAT/UN
R4170 PAT/J6
R4171 PAT/J6
R4172 PAT/RE
C4158 PAT/UN
R4173 PAT/RE
R4174 PAT/RE
C4159 PAT/UBN
C4160 PAT/UN
IC4146 PAT/NJM4580ED-T1
C4161 PAT/EVN
R4175 PAT/J6
(6) CH4_EMP
(1, 2, 3, 4, 18) GNDA
+9VA_4
IC4141 PAT/NJM4580ED-T1
C4148 PAT/UN
-9VA_4
IC4147 PAT/MC14052BF-R
R4686 PAT/J6
R4687 PAT/RE
R4144 PAT/RE
R4143 PAT/RE
R4142 PAT/RE
R4688 PAT/RE
R4689 PAT/J6
R4150 PAT/RE
R4691 PAT/RE
R4151 PAT/RE
R4152 PAT/RE
R4690 PAT/RE
R4154 PAT/RE
R4156 PAT/RE
R4157 PAT/RE
R4153 PAT/RE
R4155 PAT/RE
VR4141 PAT/VR1
CH4CMR
R4178 PAT/J6
IC4142 PAT/NJM4580ED-T1
CH4_IN_H (18)
C4149 PAT/50V33
R4148 PAT/RE
HIGH
SW4141 PAT/VSS0126-2
600
R4141 PAT/620(1/2W)
R4145 PAT/RE
R4147 PAT/RE
R4146 PAT/RE
D4141 PAT/MA157-TX
CH4_IN_C (18)
C4143 PAT/50V33
R4149 PAT/RE
C4150 PAT/UN
IC4141 PAT/NJM4580ED-T1
CH4_IN_G (1, 2, 3, 4, 18) GNDA
D4142 PAT/MA157-TX
CH4_IN_SEL_0 (17)
CH4_IN_SEL_1 (17)
IC4142 PAT/NJM4580ED-T1
R4159 PAT/J6
VR4142 PAT/VR2
CH4 IN LEVEL
R4158 PAT/J6
+5VD_2 -5VD_2
VCC VEE VSS
IC4147 PAT/MC14052BF-R
C4162 PAT/UFN
C4163 PAT/UFN
IC4149 PAT/MC14052BF-R

Ref No4000 Series (4141-4180))
R(4686-4700)

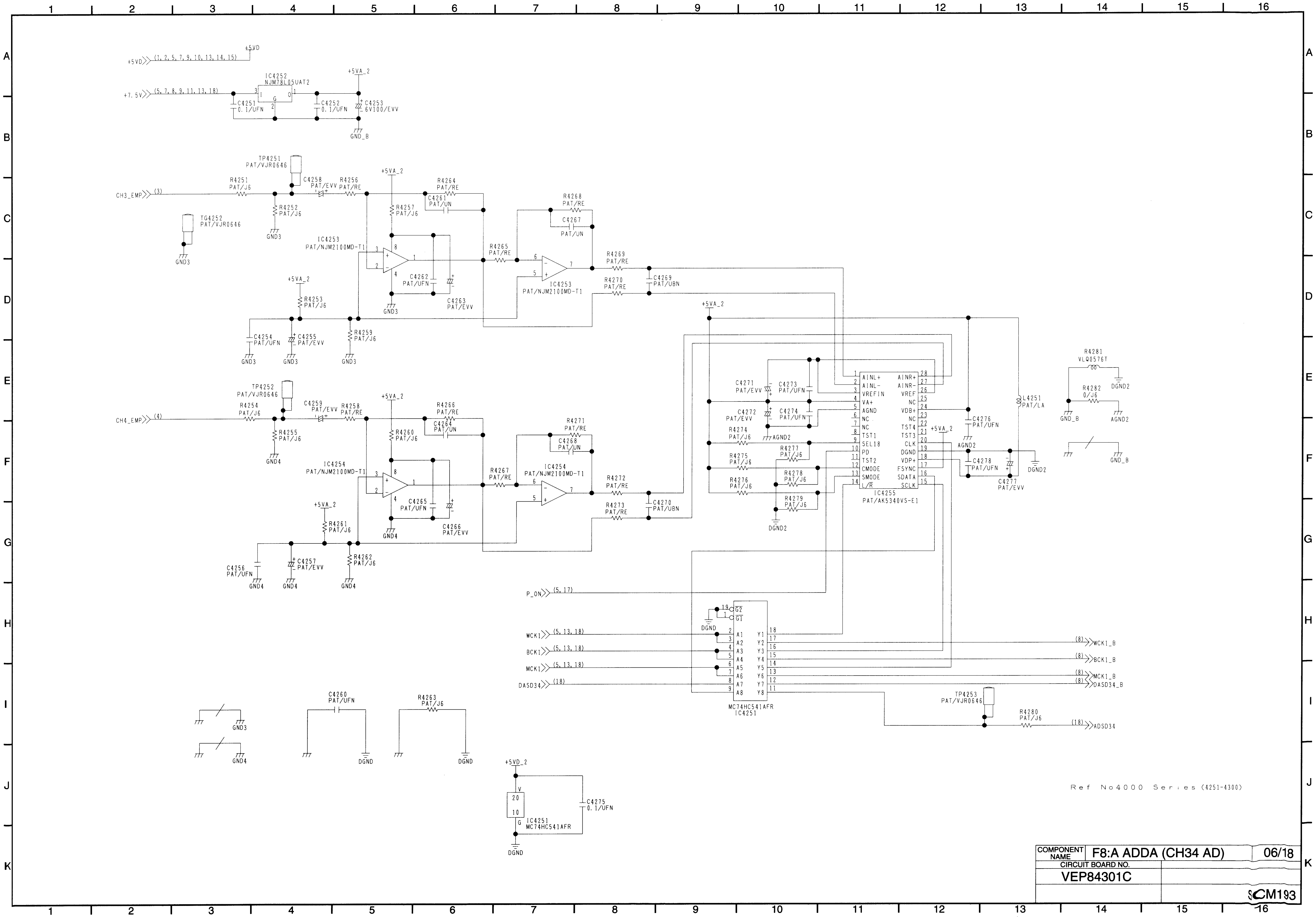
COMPONENT NAME	F8:A ADDA (CH4 INPUT)	04/18
CIRCUIT BOARD NO.		
VEP84301C		
	SCM191	


+5VD (1, 2, 6, 7, 9, 10, 13, 14, 15)
+7.5V (6, 7, 8, 9, 11, 13, 18)
IC4202 NJM78L05UAT2
C4201 0.1/UFN
C4202 0.1/UFN
C4203 6V100/EVV
+5VA
GND_A
TP4201 PAT/VJR0646
TG4202 PAT/VJR0646
CH1_EMP (1)
R4201 PAT/J6
R4202 PAT/J6
C4208 PAT/EVV
R4206 PAT/RE
R4207 PAT/J6
R4214 PAT/RE
C4211 PAT/UN
IC4203 PAT/NJM2100MD-T1
C4212 PAT/UFN
C4213 PAT/EVV
R4215 PAT/RE
R4218 PAT/RE
C4217 PAT/UN
R4219 PAT/RE
R4220 PAT/RE
C4219 PAT/UBN
R4203 PAT/J6
C4204 PAT/UFN
C4205 PAT/EVV
R4209 PAT/J6
GND1
TP4202 PAT/VJR0646
CH2_EMP (2)
R4204 PAT/J6
R4205 PAT/J6
C4209 PAT/EVV
R4208 PAT/RE
R4210 PAT/J6
R4216 PAT/RE
C4214 PAT/UN
IC4204 PAT/NJM2100MD-T1
C4215 PAT/UFN
C4216 PAT/EVV
R4217 PAT/RE
R4221 PAT/RE
C4218 PAT/UN
R4222 PAT/RE
R4223 PAT/RE
C4220 PAT/UBN
R4211 PAT/J6
R4212 PAT/J6
C4206 PAT/UFN
C4207 PAT/EVV
GND2
C4221 PAT/EVV
C4223 PAT/UFN
C4222 PAT/EVV
C4224 PAT/UFN
R4224 PAT/J6
R4225 PAT/J6
R4226 PAT/J6
R4227 PAT/J6
R4228 PAT/J6
R4229 PAT/J6
AGND1
DGND1
IC4205 PAT/AK5340VS-E1
AINL+ AINL- VREFIN VA+ AGND NC NC TST1 SEL18 PD TST2 CMODE SMODE L/R
AINR+ AINR- VREF NC VDB+ NC TST4 TST3 CLK DGND VDP+ FSYNC SDATA SCLK
C4226 PAT/UFN
C4228 PAT/UFN
C4227 PAT/EVV
L4201 PAT/LA
R4231 VLQ0576T
R4232 0/J6
P_ON (6, 17)
WCK1 (6, 13, 18)
BCK1 (6, 13, 18)
MCK1 (6, 13, 18)
DASD12 (18)
G2 G1 A1 A2 A3 A4 A5 A6 A7 A8 Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
MC74HC541AFR IC4201
(7) WCK1_A
(7) BCK1_A
(7) MCK1_A
(7) DASD12_A
TP4203 PAT/VJR0646
R4230 PAT/J6
(18) ADSD12
C4210 PAT/UFN
R4213 PAT/J6
DGND
C4225 0.1/UFN
IC4201 MC74HC541AFR

Ref No4000 Series (4201-4250)

COMPONENT NAME	F8:A ADDA (CH12 AD)	05/18
CIRCUIT BOARD NO.		
VEP84301C		
		SCM192

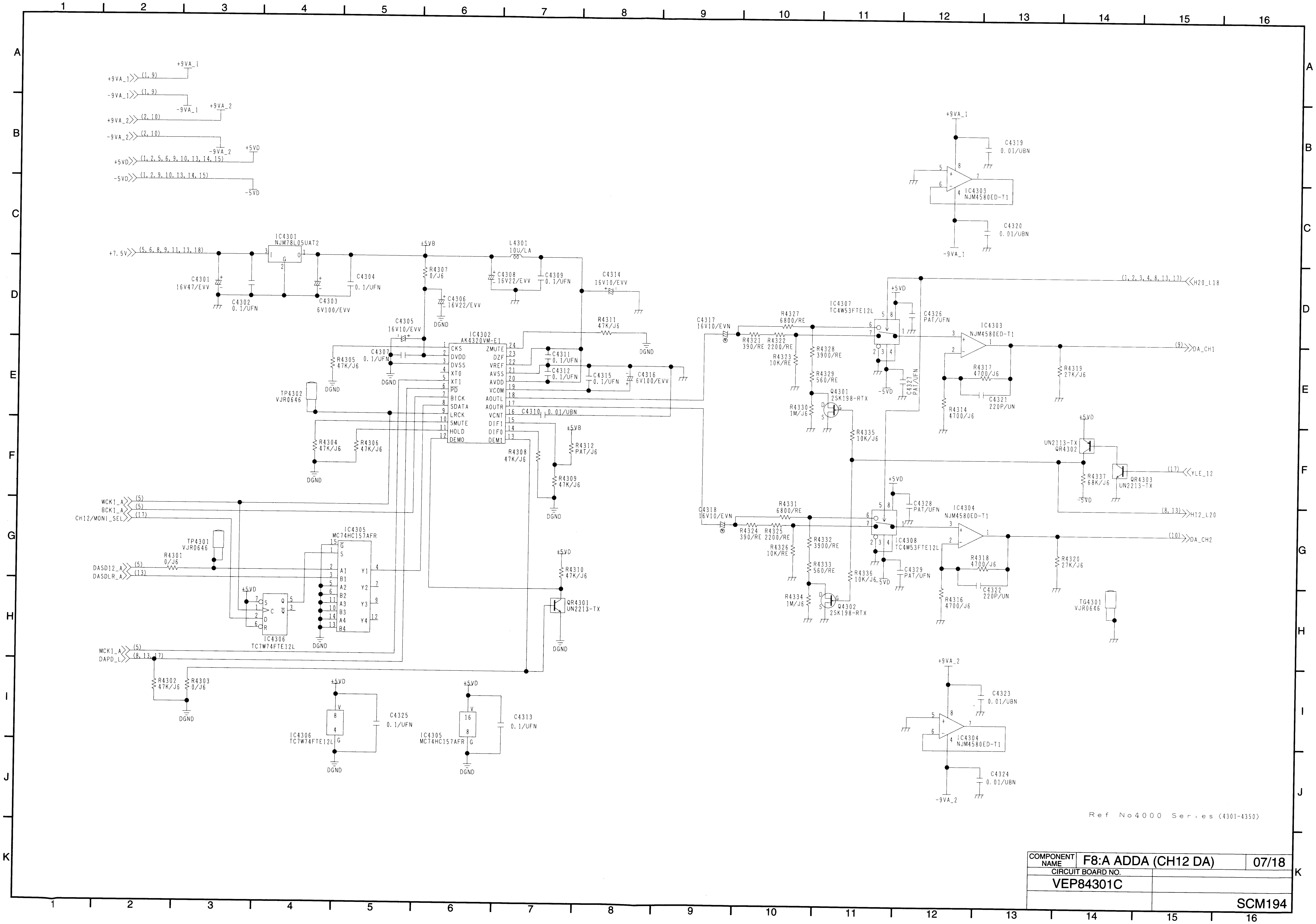
KR4H35(5/18)


+5VD
+5VD (1, 2, 5, 7, 9, 10, 13, 14, 15)
+7.5V (5, 7, 8, 9, 11, 13, 18)
IC4252 NJM78L05UAT2
C4251 0.1/UFN
C4252 0.1/UFN
C4253 6V100/EVV
+5VA_2
GND_B
TP4251 PAT/VJR0646
TG4252 PAT/VJR0646
CH3_EMP (3)
R4251 PAT/J6
C4258 PAT/EVV
R4256 PAT/RE
R4252 PAT/J6
R4257 PAT/J6
R4264 PAT/RE
C4261 PAT/UN
IC4253 PAT/NJM2100MD-T1
C4262 PAT/UFN
C4263 PAT/EVV
R4265 PAT/RE
R4268 PAT/RE
C4267 PAT/UN
R4269 PAT/RE
R4270 PAT/RE
C4269 PAT/UBN
R4253 PAT/J6
R4259 PAT/J6
C4254 PAT/UFN
C4255 PAT/EVV
GND3
TP4252 PAT/VJR0646
CH4_EMP (4)
R4254 PAT/J6
C4259 PAT/EVV
R4258 PAT/RE
R4255 PAT/J6
R4260 PAT/J6
R4266 PAT/RE
C4264 PAT/UN
IC4254 PAT/NJM2100MD-T1
C4265 PAT/UFN
C4266 PAT/EVV
R4267 PAT/RE
R4271 PAT/RE
C4268 PAT/UN
R4272 PAT/RE
R4273 PAT/RE
C4270 PAT/UBN
R4261 PAT/J6
R4262 PAT/J6
C4256 PAT/UFN
C4257 PAT/EVV
GND4
C4271 PAT/EVV
C4272 PAT/EVV
C4273 PAT/UFN
C4274 PAT/UFN
R4274 PAT/J6
R4275 PAT/J6
R4276 PAT/J6
R4277 PAT/J6
R4278 PAT/J6
R4279 PAT/J6
AGND2
DGND2
AINL+ AINL- VREFIN VA+ AGND NC NC TST1 SEL18 PD TST2 CMODE SMODE L/R
AINR+ AINR- VREF NC VDB+ NC TST4 TST3 CLK DGND VDP+ FSYNC SDATA SCLK
IC4255 PAT/AK5340VS-E1
C4276 PAT/UFN
C4277 PAT/EVV
C4278 PAT/UFN
L4251 PAT/LA
R4281 VLQ0576T
R4282 0/J6
GND_B
P_ON (5, 17)
WCK1 (5, 13, 18)
BCK1 (5, 13, 18)
MCK1 (5, 13, 18)
DASD34 (18)
DGND
G2 G1 A1 A2 A3 A4 A5 A6 A7 A8 Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
MC74HC541AFR IC4251
(8) WCK1_B
(8) BCK1_B
(8) MCK1_B
(8) DASD34_B
TP4253 PAT/VJR0646
R4280 PAT/J6
(18) ADSD34
C4260 PAT/UFN
R4263 PAT/J6
+5VD_2
C4275 0.1/UFN
IC4251 MC74HC541AFR
Ref No4000 Series (4251-4300)

KR4H35(6/18)

COMPONENT NAME	F8:A ADDA (CH34 AD)	06/18
CIRCUIT BOARD NO.		
VEP84301C		

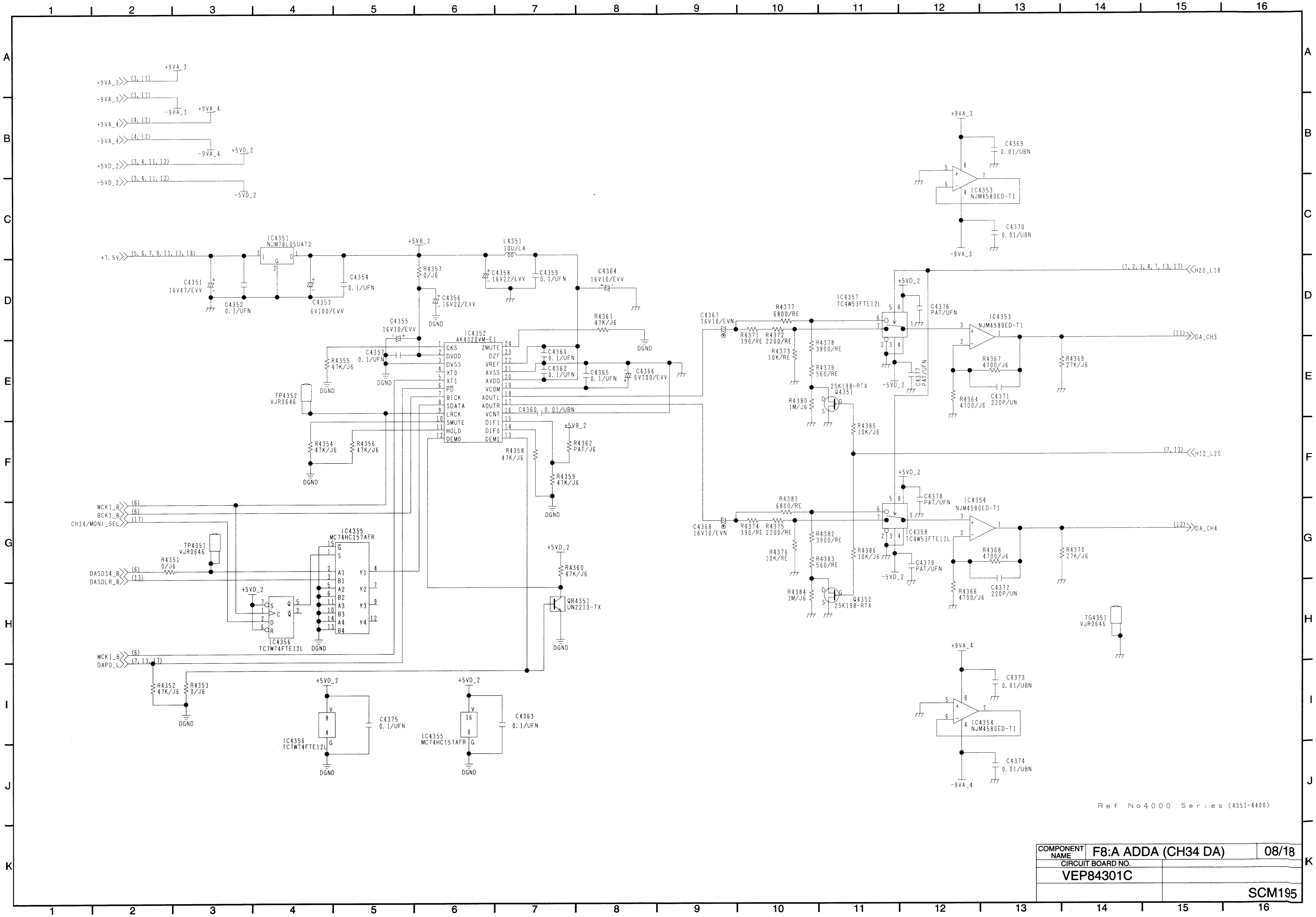
CM193


+9VA_1
-9VA_1
+9VA_2
-9VA_2
+5VD
-5VD
+7.5V
IC4301
NJM78L05UAT2
C4301
16V47/EVV
C4302
0.1/UFN
C4303
6V100/EVV
C4304
0.1/UFN
+5VB
R4307
0/J6
C4306
16V22/EVV
L4301
10U/LA
C4308
16V22/EVV
C4309
0.1/UFN
C4314
16V10/EVV
C4305
16V10/EVV
C4307
0.1/UFN
R4311
47K/J6
IC4302
AK4320VM-E1
CKS
DVDD
DVSS
XTO
XTI
PD
BICK
SDATA
LRCK
SMUTE
HOLD
DEMO
ZMUTE
DZF
VREF
AVSS
AVDD
VCOM
AOUTL
AOUTR
VCNT
DIF1
DIF0
DEM1
C4311
0.1/UFN
C4312
0.1/UFN
C4315
0.1/UFN
C4316
6V100/EVV
C4310
0.01/UBN
R4305
47K/J6
TP4302
VJR0646
R4304
47K/J6
R4306
47K/J6
R4308
47K/J6
R4312
PAT/J6
R4309
47K/J6
DGND
WCK1_A
BCK1_A
CH12/MONI_SEL
TP4301
VJR0646
R4301
0/J6
DASD12_A
DASDLR_A
IC4305
MC74HC157AFR
IC4306
TC7W74FTE12L
R4310
47K/J6
QR4301
UN2213-TX
MCK1_A
DAPD_L
R4302
47K/J6
R4303
0/J6
C4325
0.1/UFN
C4313
0.1/UFN
C4319
0.01/UBN
IC4303
NJM4580ED-T1
C4320
0.01/UBN
(1, 2, 3, 4, 8, 13, 17)
H20_L18
C4317
16V10/EVN
R4327
6800/RE
R4321
390/RE
R4322
2200/RE
IC4307
TC4W53FTE12L
C4326
PAT/UFN
R4328
3900/RE
R4323
10K/RE
R4329
560/RE
Q4301
2SK198-RTX
R4330
1M/J6
R4335
10K/J6
C4327
PAT/UFN
R4317
4700/J6
R4314
4700/J6
C4321
220P/UN
R4319
27K/J6
(9)
DA_CH1
UN2113-TX
QR4302
R4337
68K/J6
QR4303
UN2213-TX
(17)
YLE_12
(8, 13)
H12_L20
C4318
16V10/EVN
R4331
6800/RE
R4324
390/RE
R4325
2200/RE
C4328
PAT/UFN
IC4304
NJM4580ED-T1
IC4308
TC4W53FTE12L
R4326
10K/RE
R4332
3900/RE
R4333
560/RE
R4336
10K/J6
C4329
PAT/UFN
R4334
1M/J6
Q4302
2SK198-RTX
R4318
4700/J6
R4316
4700/J6
C4322
220P/UN
R4320
27K/J6
(10)
DA_CH2
TG4301
VJR0646
C4323
0.01/UBN
C4324
0.01/UBN

Ref No4000 Series (4301-4350)

COMPONENT NAME	F8:A ADDA (CH12 DA)	07/18
CIRCUIT BOARD NO.		
VEP84301C		
		SCM194

KR4H35(7/18)

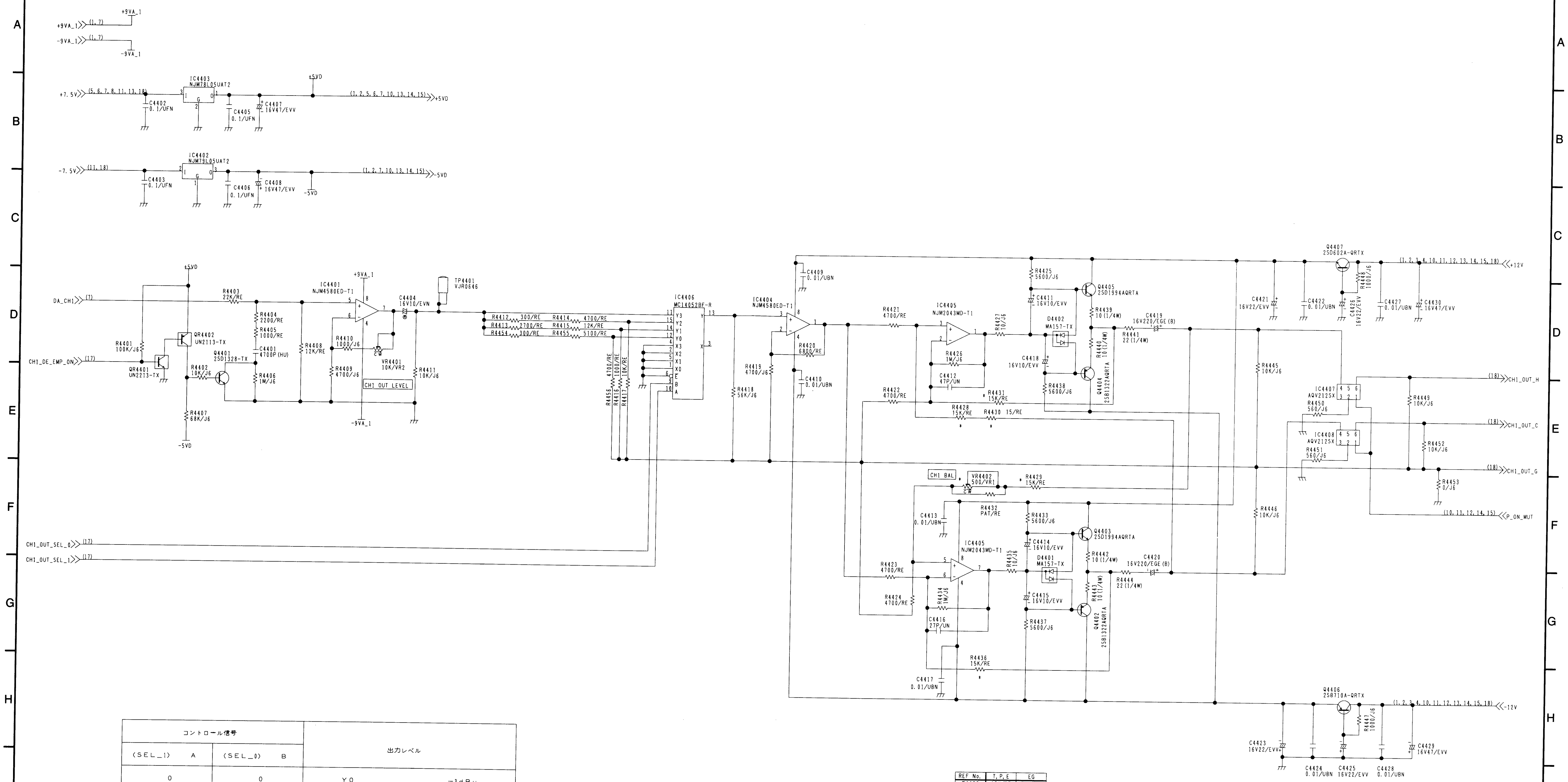


+9VA_3
-9VA_3
+9VA_4
-9VA_4
+5VD_2
-5VD_2
+7.5V
IC4351 NJM78L05UAT2
C4351 16V47/EVV
C4352 0.1/UFN
C4353 6V100/EVV
C4354 0.1/UFN
+5VB_2
R4357 0/J6
C4356 16V22/EVV
L4351 10U/LA
C4358 16V22/EVV
C4359 0.1/UFN
C4364 16V10/EVV
C4355 16V10/EVV
IC4352 AK4320VM-E1
CKS
DVDD
DVSS
XTO
XTI
PD
BICK
SDATA
LRCK
SMUTE
HOLD
DEMO
ZMUTE
DZF
VREF
AVSS
AVDD
VCOM
AOUTL
AOUTR
VCNT
DIF1
DIF0
DEM1
C4357 0.1/UFN
R4355 47K/J6
R4361 47K/J6
C4361 0.1/UFN
C4362 0.1/UFN
C4365 0.1/UFN
C4366 6V100/EVV
C4360 0.01/UBN
TP4352 VJR0646
R4354 47K/J6
R4356 47K/J6
R4358 47K/J6
R4362 PAT/J6
R4359 47K/J6
DGND
WCK1_B
BCK1_B
CH34/MONI_SEL
TP4351 VJR0646
R4351 0/J6
DASD34_B
DASDLR_B
IC4355 MC74HC157AFR
IC4356 TC7W74FTE12L
R4360 47K/J6
QR4351 UN2213-TX
MCK1_B
DAPD_L
R4352 47K/J6
R4353 0/J6
C4375 0.1/UFN
C4363 0.1/UFN
C4367 16V10/EVN
R4371 390/RE
R4372 2200/RE
R4373 10K/RE
R4377 6800/RE
R4378 3900/RE
R4379 560/RE
R4380 1M/J6
Q4351 2SK198-RTX
R4385 10K/J6
IC4357 TC4W53FTE12L
C4376 PAT/UFN
C4377 PAT/UFN
IC4353 NJM4580ED-T1
R4367 4700/J6
R4364 4700/J6
C4371 220P/UN
R4369 27K/J6
DA_CH3
H20_L18
H12_L20
C4368 16V10/EVN
R4374 390/RE
R4375 2200/RE
R4376 10K/RE
R4381 6800/RE
R4382 3900/RE
R4383 560/RE
R4384 1M/J6
R4386 10K/J6
Q4352 2SK198-RTX
IC4358 TC4W53FTE12L
C4378 PAT/UFN
C4379 PAT/UFN
IC4354 NJM4580ED-T1
R4368 4700/J6
R4366 4700/J6
C4372 220P/UN
R4370 27K/J6
DA_CH4
TG4351 VJR0646
C4369 0.01/UBN
C4370 0.01/UBN
C4373 0.01/UBN
C4374 0.01/UBN

Ref No4000 Series (4351-4400)

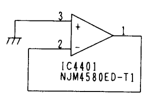
COMPONENT NAME	F8:A ADDA (CH34 DA)	08/18
CIRCUIT BOARD NO.		
VEP84301C		
		SCM195

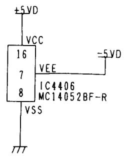
KR4H35(8/18)

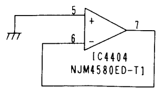

+9VA_1
(1, 7)
-9VA_1
+7.5V
(5, 6, 7, 8, 11, 13, 18)
IC4403
NJM78L05UAT2
C4402
0.1/UFN
C4405
0.1/UFN
C4407
16V47/EVV
+5VD
(1, 2, 5, 6, 7, 10, 13, 14, 15)
-7.5V
(11, 18)
IC4402
NJM79L05UAT2
C4403
0.1/UFN
C4406
0.1/UFN
C4408
16V47/EVV
-5VD
(1, 2, 7, 10, 13, 14, 15)
DA_CH1
(7)
CH1_DE_EMP_ON
(17)
R4401
100K/J6
QR4401
UN2213-TX
QR4402
UN2113-TX
R4402
10K/J6
Q4401
2SD1328-TX
R4403
22K/RE
R4404
2200/RE
R4405
1000/RE
C4401
4700P (HU)
R4406
1M/J6
R4407
68K/J6
R4408
12K/RE
IC4401
NJM4580ED-T1
R4409
4700/J6
R4410
1000/J6
VR4401
10K/VR2
CW
CH1 OUT LEVEL
C4404
16V10/EVN
R4411
10K/J6
TP4401
VJR0646
R4412 300/RE
R4413 2700/RE
R4454 300/RE
R4414 4700/RE
R4415 12K/RE
R4455 5100/RE
R4456 4700/RE
R4416 1000/RE
R4417 10K/RE
IC4406
MC14052BF-R
Y3 Y2 Y1 Y0 X3 X2 X1 X0 E B A Y X
IC4404
NJM4580ED-T1
C4409
0.01/UBN
C4410
0.01/UBN
R4418
56K/J6
R4419
4700/J6
R4420
6800/RE
CH1_OUT_SEL_0
CH1_OUT_SEL_1
R4421
4700/RE
R4422
4700/RE
IC4405
NJM2043MD-T1
R4426
1M/J6
C4412
47P/UN
R4427
10/J6
R4425
5600/J6
C4411
16V10/EVV
D4402
MA157-TX
C4418
16V10/EVV
R4438
5600/J6
Q4405
2SD1994AQRTA
R4439
10 (1/4W)
R4440
10 (1/4W)
Q4404
2SB1322AQRTA
R4441
22 (1/4W)
C4419
16V220/EGE (B)
* R4431
15K/RE
R4428
15K/RE
R4430 15/RE
CH1 BAL
VR4402
500/VR1
* R4429
15K/RE
R4432
PAT/RE
C4413
0.01/UBN
R4433
5600/J6
C4414
16V10/EVV
Q4403
2SD1994AQRTA
R4423
4700/RE
R4424
4700/RE
R4434
1M/J6
C4416
27P/UN
R4435
10/J6
D4401
MA157-TX
C4415
16V10/EVV
R4437
5600/J6
R4442
10 (1/4W)
R4443
10 (1/4W)
Q4402
2SB1322AQRTA
R4444
22 (1/4W)
C4420
16V220/EGE (B)
R4436
15K/RE
C4417
0.01/UBN
Q4407
2SD602A-QRTX
(1, 2, 3, 4, 10, 11, 12, 13, 14, 15, 18)
+12V
C4421
16V22/EVV
C4422
0.01/UBN
C4426
16V22/EVV
R4448
1000/J6
C4427
0.01/UBN
C4430
16V47/EVV
R4445
10K/J6
R4446
10K/J6
IC4407
AQV212SX
R4450
560/J6
IC4408
AQV212SX
R4451
560/J6
R4449
10K/J6
R4452
10K/J6
R4453
0/J6
(18)
CH1_OUT_H
CH1_OUT_C
CH1_OUT_G
(10, 11, 12, 14, 15)
P_ON_MUT
Q4406
2SB710A-QRTX
-12V
R4447
1000/J6
C4423
16V22/EVV
C4424
0.01/UBN
C4425
16V22/EVV
C4428
0.01/UBN
C4429
16V47/EVV

コントロール信号		出力レベル	
(SEL_1) A	(SEL_0) B		
0	0	Y0	−3dBu
1	0	Y1	−20dBu
0	1	Y2	0dBu
1	1	Y3	+4dBu

REF No.	T, P, E	EG
R4428	15K/RE	PAT/RE
R4429	15K/RE	PAT/RE
R4430	15K/RE	PAT/RE
R4431	15K/RE	2700/RE
R4436	15K/RE	7500/RE
VR4402	500/VR1	PAT/VR1


IC4401
NJM4580ED-T1

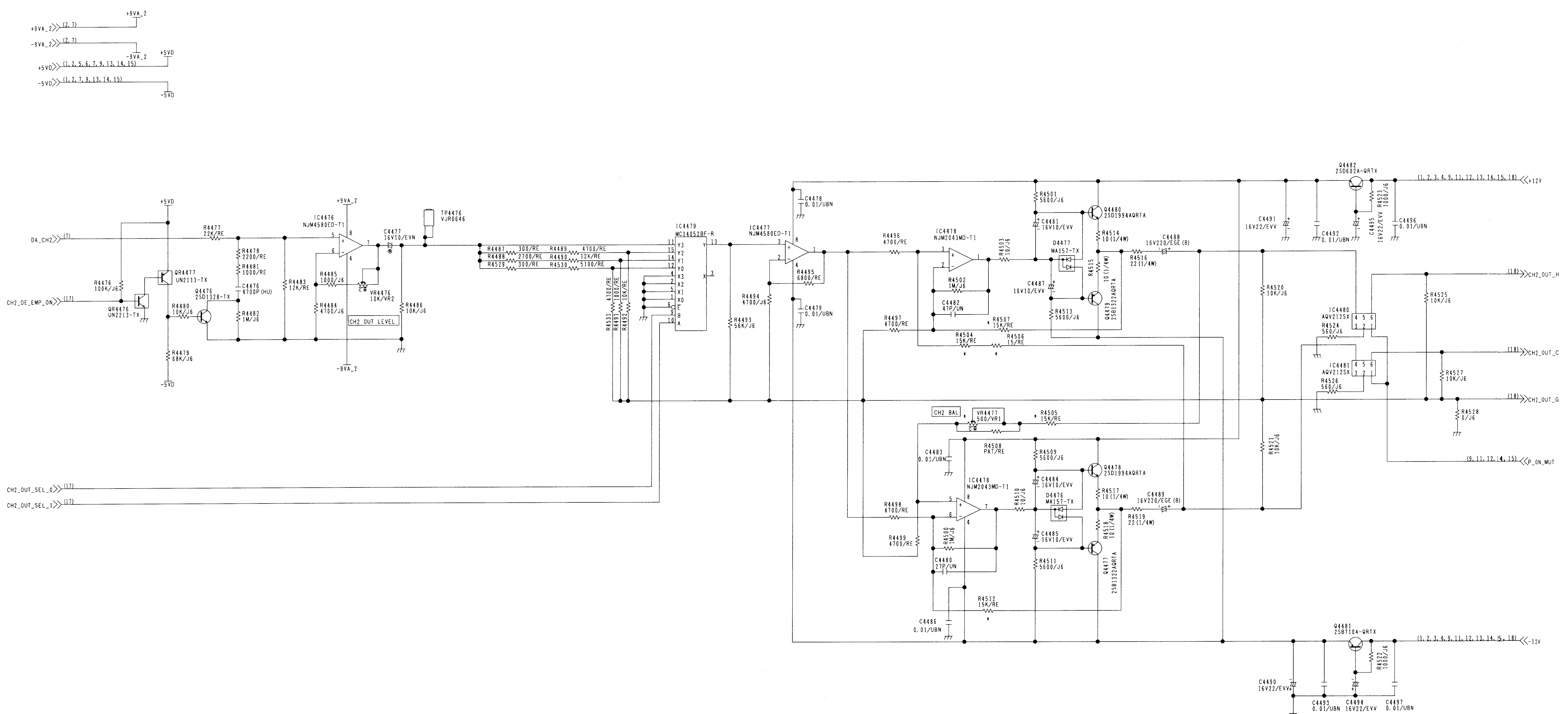

+5VD
VCC
16
7
8
VEE
-5VD
IC4406
MC14052BF-R
VSS


IC4404
NJM4580ED-T1

Ref No4000 Series (4401-4475)
R(4401-4460)

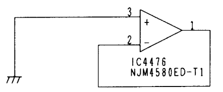
COMPONENT NAME	F8:A ADDA (CH1 OUTPUT)	09/18
CIRCUIT BOARD NO.		
VEP84301C		
	SCM196	

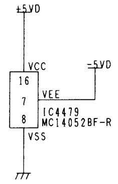
KB4H35(9/18)

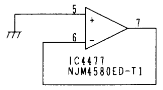

+9VA_2
-9VA_2
+5VD
-5VD
DA_CH2
CH2_DE_EMP_ON
QR4476 UN2213-TX
QR4477 UN2113-TX
Q4476 2SD1328-TX
R4476 100K/J6
R4477 22K/RE
R4478 2200/RE
R4479 68K/J6
R4480 10K/J6
R4481 1000/RE
R4482 1M/J6
R4483 12K/RE
R4484 4700/J6
R4485 1000/J6
R4486 10K/J6
C4476 4700P(HU)
C4477 16V10/EVN
IC4476 NJM4580ED-T1
VR4476 10K/VR2
CH2 OUT LEVEL
TP4476 VJR0646
R4487 300/RE
R4488 2700/RE
R4529 300/RE
R4489 4700/RE
R4490 12K/RE
R4530 5100/RE
R4531 4700/RE
R4491 1000/RE
R4492 10K/RE
IC4479 MC14052BF-R
IC4477 NJM4580ED-T1
R4493 56K/J6
R4494 4700/J6
R4495 6800/RE
C4478 0.01/UBN
C4479 0.01/UBN
CH2_OUT_SEL_0
CH2_OUT_SEL_1
IC4478 NJM2043MD-T1
R4496 4700/RE
R4497 4700/RE
R4498 4700/RE
R4499 4700/RE
R4500 1M/J6
R4502 1M/J6
C4482 47P/UN
C4480 27P/UN
C4483 0.01/UBN
C4486 0.01/UBN
R4503 10/J6
R4504 15K/RE
R4505 15K/RE
R4506 15/RE
R4507 15K/RE
R4508 PAT/RE
CH2 BAL
VR4477 500/VR1
R4501 5600/J6
R4509 5600/J6
R4510 10/J6
R4511 5600/J6
R4512 15K/RE
R4513 5600/J6
R4514 10(1/4W)
R4515 10(1/4W)
R4516 22(1/4W)
R4517 10(1/4W)
R4518 10(1/4W)
R4519 22(1/4W)
C4481 16V10/EVV
C4484 16V10/EVV
C4485 16V10/EVV
C4487 16V10/EVV
C4488 16V220/EGE(B)
C4489 16V220/EGE(B)
D4476 MA157-TX
D4477 MA157-TX
Q4478 2SD1994AQRTA
Q4480 2SD1994AQRTA
Q4477 2SB1322AQRTA
Q4479 2SB1322AQRTA
R4520 10K/J6
R4521 10K/J6
Q4482 2SD602A-QRTX
R4523 1000/J6
C4491 16V22/EVV
C4492 0.01/UBN
C4495 16V22/EVV
C4496 0.01/UBN
(1, 2, 3, 4, 9, 11, 12, 13, 14, 15, 18)
+12V
IC4480 AQV212SX
IC4481 AQV212SX
R4524 560/J6
R4526 560/J6
R4525 10K/J6
R4527 10K/J6
R4528 0/J6
CH2_OUT_H
CH2_OUT_C
CH2_OUT_G
(9, 11, 12, 14, 15)
P_ON_MUT
Q4481 2SB710A-QRTX
R4522 1000/J6
C4490 16V22/EVV
C4493 0.01/UBN
C4494 16V22/EVV
C4497 0.01/UBN
-12V

REF No.	T, P, E	EG
R4504	15K/RE	PAT/RE
R4505	15K/RE	PAT/RE
R4506	15K/RE	PAT/RE
R4507	15K/RE	2700/RE
R4512	15K/RE	7500/RE
VR4477	500/VR1	PAT/VR1

コントロール信号		出力レベル	
（SEL_1）　A	（SEL_0）　B		
0	0	Y0	-3dBu
1	0	Y1	−20dBu
0	1	Y2	0dBu
1	1	Y3	+4dBu


IC4476
NJM4580ED-T1

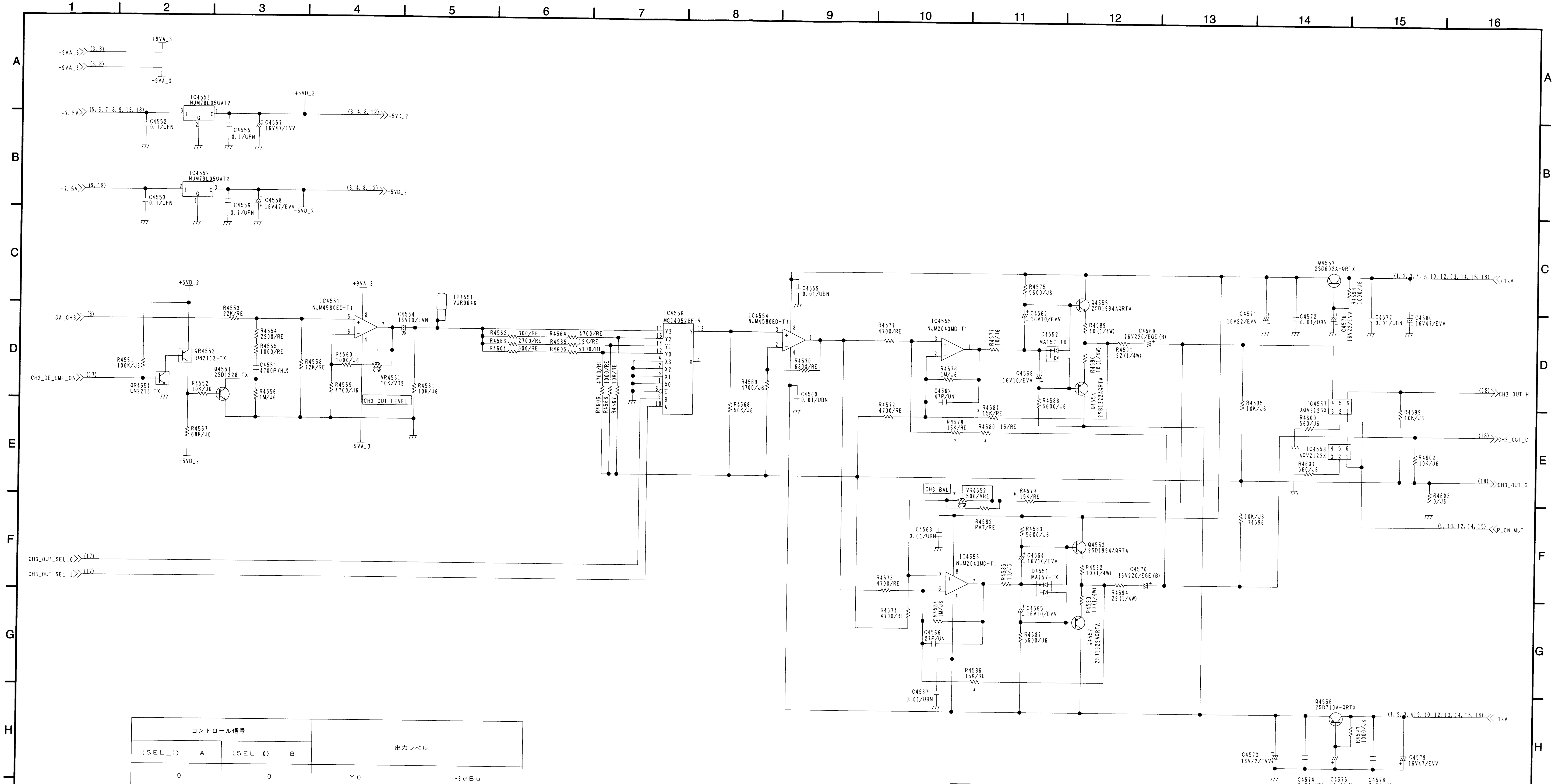

+5VD
VCC
-5VD
VEE
IC4479
MC14052BF-R
VSS


IC4477
NJM4580ED-T1

Ref No4000 Series (4476-4550)
R(4476-4535)

COMPONENT NAME	F8:A ADDA (CH2 OUTPUT)	10/18
CIRCUIT BOARD NO.		
VEP84301C		
	SCM197	

KH4H35(10/18)


+9VA_3
(3, 8)
-9VA_3
(3, 8)
+7.5V
(5, 6, 7, 8, 9, 13, 18)
IC4553
NJM78L05UAT2
C4552
0.1/UFN
C4555
0.1/UFN
C4557
16V47/EVV
+5VD_2
(3, 4, 8, 12)
-7.5V
(9, 18)
IC4552
NJM79L05UAT2
C4553
0.1/UFN
C4556
0.1/UFN
C4558
16V47/EVV
-5VD_2
DA_CH3
(8)
CH3_DE_EMP_ON
(17)
R4551
100K/J6
QR4551
UN2213-TX
QR4552
UN2113-TX
Q4551
2SD1328-TX
R4552
10K/J6
R4557
68K/J6
R4553
22K/RE
R4554
2200/RE
R4555
1000/RE
C4551
4700P (HU)
R4556
1M/J6
R4558
12K/RE
IC4551
NJM4580ED-T1
+9VA_3
-9VA_3
R4560
1000/J6
R4559
4700/J6
VR4551
10K/VR2
CW
CH3 OUT LEVEL
C4554
16V10/EVN
R4561
10K/J6
TP4551
VJR0646
R4562
300/RE
R4563
2700/RE
R4604
300/RE
R4564
4700/RE
R4565
12K/RE
R4605
5100/RE
R4606
4700/RE
R4566
1000/RE
R4567
10K/RE
IC4556
MC14052BF-R
Y3
Y2
Y1
Y0
X3
X2
X1
X0
E
B
A
Y
X
CH3_OUT_SEL_0
(17)
CH3_OUT_SEL_1
(17)
R4568
56K/J6
IC4554
NJM4580ED-T1
R4569
4700/J6
R4570
6800/RE
C4559
0.01/UBN
C4560
0.01/UBN
R4571
4700/RE
R4572
4700/RE
IC4555
NJM2043MD-T1
R4576
1M/J6
C4562
47P/UN
R4577
10/J6
R4575
5600/J6
C4561
16V10/EVV
C4568
16V10/EVV
D4552
MA157-TX
Q4555
2SD1994AQRTA
Q4554
2SB1322AQRTA
R4588
5600/J6
R4589
10 (1/4W)
R4590
10 (1/4W)
R4591
22 (1/4W)
C4569
16V220/EGE (B)
* R4581
15K/RE
R4578
15K/RE
R4580 15/RE
CH3 BAL
VR4552
500/VR1
* R4579
15K/RE
C4563
0.01/UBN
R4582
PAT/RE
R4583
5600/J6
Q4553
2SD1994AQRTA
C4564
16V10/EVV
D4551
MA157-TX
IC4555
NJM2043MD-T1
R4573
4700/RE
R4574
4700/RE
R4584
1M/J6
R4585
10/J6
C4566
27P/UN
C4565
16V10/EVV
R4587
5600/J6
R4592
10 (1/4W)
R4593
10 (1/4W)
Q4552
2SB1322AQRTA
R4594
22 (1/4W)
C4570
16V220/EGE (B)
R4586
15K/RE
C4567
0.01/UBN
Q4557
2SD602A-QRTX
R4598
1000/J6
C4571
16V22/EVV
C4572
0.01/UBN
C4576
16V22/EVV
C4577
0.01/UBN
C4580
16V47/EVV
(1, 2, 3, 4, 9, 10, 12, 13, 14, 15, 18)
+12V
R4595
10K/J6
10K/J6
R4596
IC4557
AQV212SX
R4600
560/J6
IC4558
AQV212SX
R4601
560/J6
R4599
10K/J6
R4602
10K/J6
R4603
0/J6
(18)
CH3_OUT_H
(18)
CH3_OUT_C
(18)
CH3_OUT_G
(9, 10, 12, 14, 15)
P_ON_MUT
Q4556
2SB710A-QRTX
R4597
1000/J6
C4573
16V22/EVV
C4574
0.01/UBN
C4575
16V22/EVV
C4578
0.01/UBN
C4579
16V47/EVV
(1, 2, 3, 4, 9, 10, 12, 13, 14, 15, 18)
-12V

<table>
<tr><th colspan="2">コントロール信号</th><th colspan="2" rowspan="2">出力レベル</th></tr>
<tr><th>(SEL_1) A</th><th>(SEL_0) B</th></tr>
<tr><td>0</td><td>0</td><td>Y0</td><td>-3dBu</td></tr>
<tr><td>1</td><td>0</td><td>Y1</td><td>−20dBu</td></tr>
<tr><td>0</td><td>1</td><td>Y2</td><td>0dBu</td></tr>
<tr><td>1</td><td>1</td><td>Y3</td><td>+4dBu</td></tr>
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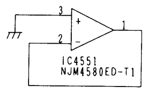
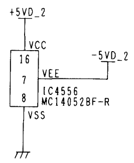
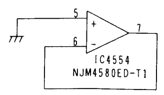
REF No.	T, P, E	EG
R4578	15K/RE	PAT/RE
R4579	15K/RE	PAT/RE
R4580	15K/RE	PAT/RE
R4581	15K/RE	2700/RE
R4586	15K/RE	7500/RE
VR4552	500/VR1	PAT/VR1


3
2
1
IC4551
NJM4580ED-T1

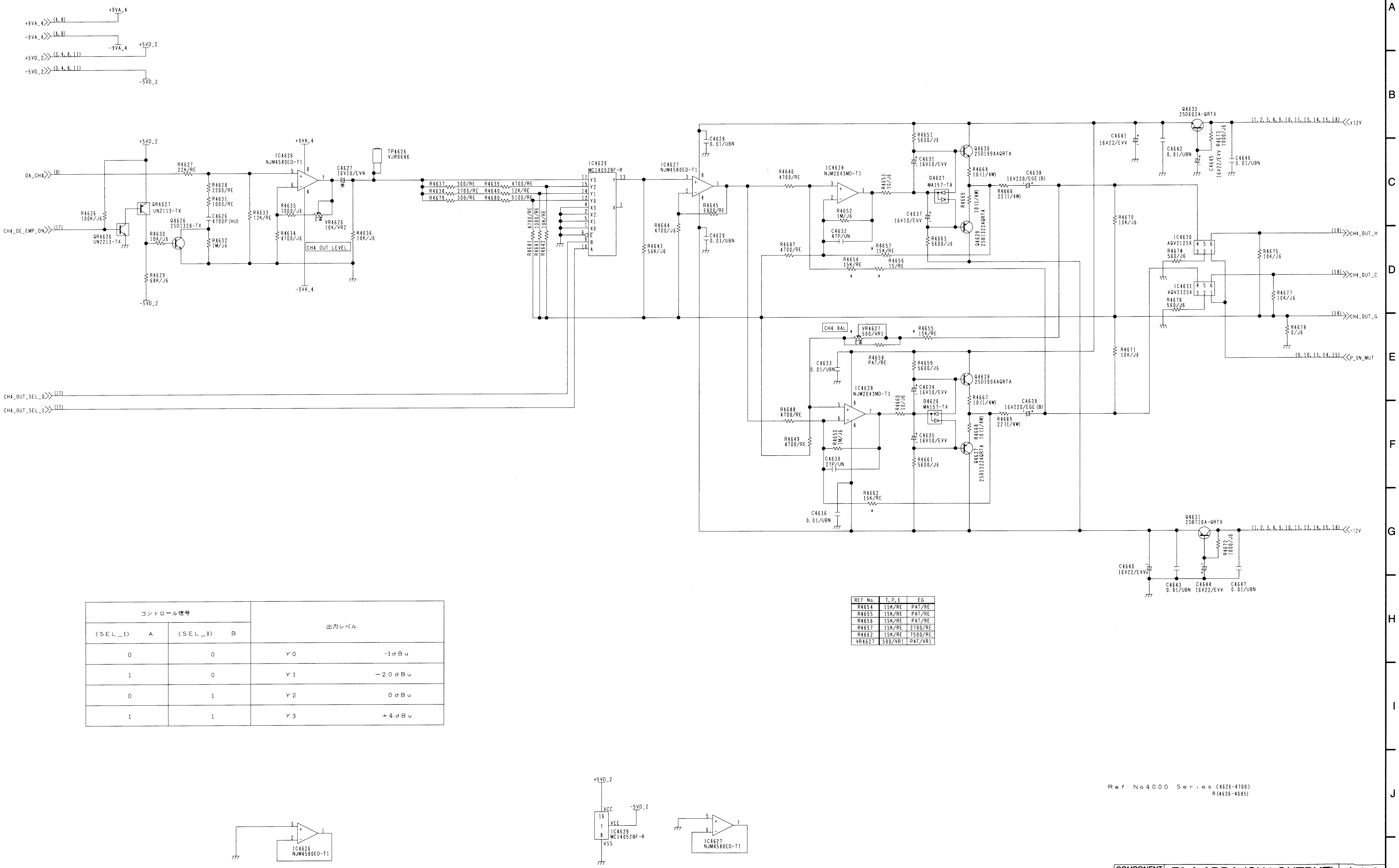

+5VD_2
VCC
16
7
8
VEE
-5VD_2
IC4556
MC14052BF-R
VSS


5
6
7
IC4554
NJM4580ED-T1

Ref No4000 Series (4551-4625)
R(4551-4610)

COMPONENT NAME	F8:A ADDA (CH3 OUTPUT)	11/18
CIRCUIT BOARD NO.		
VEP84301C		
	SCM198	

KR4H35(11/18)


+9VA_4
-9VA_4
+5VD_2
-5VD_2
DA_CH4
CH4_DE_EMP_ON
CH4_OUT_SEL_0
CH4_OUT_SEL_1
QR4627 UN2113-TX
QR4626 UN2213-TX
Q4626 2SD1328-TX
IC4626 NJM4580ED-T1
VR4626 10K/VR2
CH4 OUT LEVEL
C4627 16V10/EVN
TP4626 VJR0646
IC4629 MC14052BF-R
IC4627 NJM4580ED-T1
IC4628 NJM2043MD-T1
D4627 MA157-TX
D4626 MA157-TX
Q4630 2SD1994AQRTA
Q4629 2SB1322AQRTA
Q4628 2SD1994AQRTA
Q4627 2SB1322AQRTA
C4638 16V220/EGE(B)
C4639 16V220/EGE(B)
CH4 BAL
VR4627 500/VR1
IC4630 AQV212SX
IC4631 AQV212SX
Q4632 2SD602A-QRTX
Q4631 2SB710A-QRTX
CH4_OUT_H
CH4_OUT_C
CH4_OUT_G
P_ON_MUT
+12V
-12V
(1,2,3,4,9,10,11,13,14,15,18)

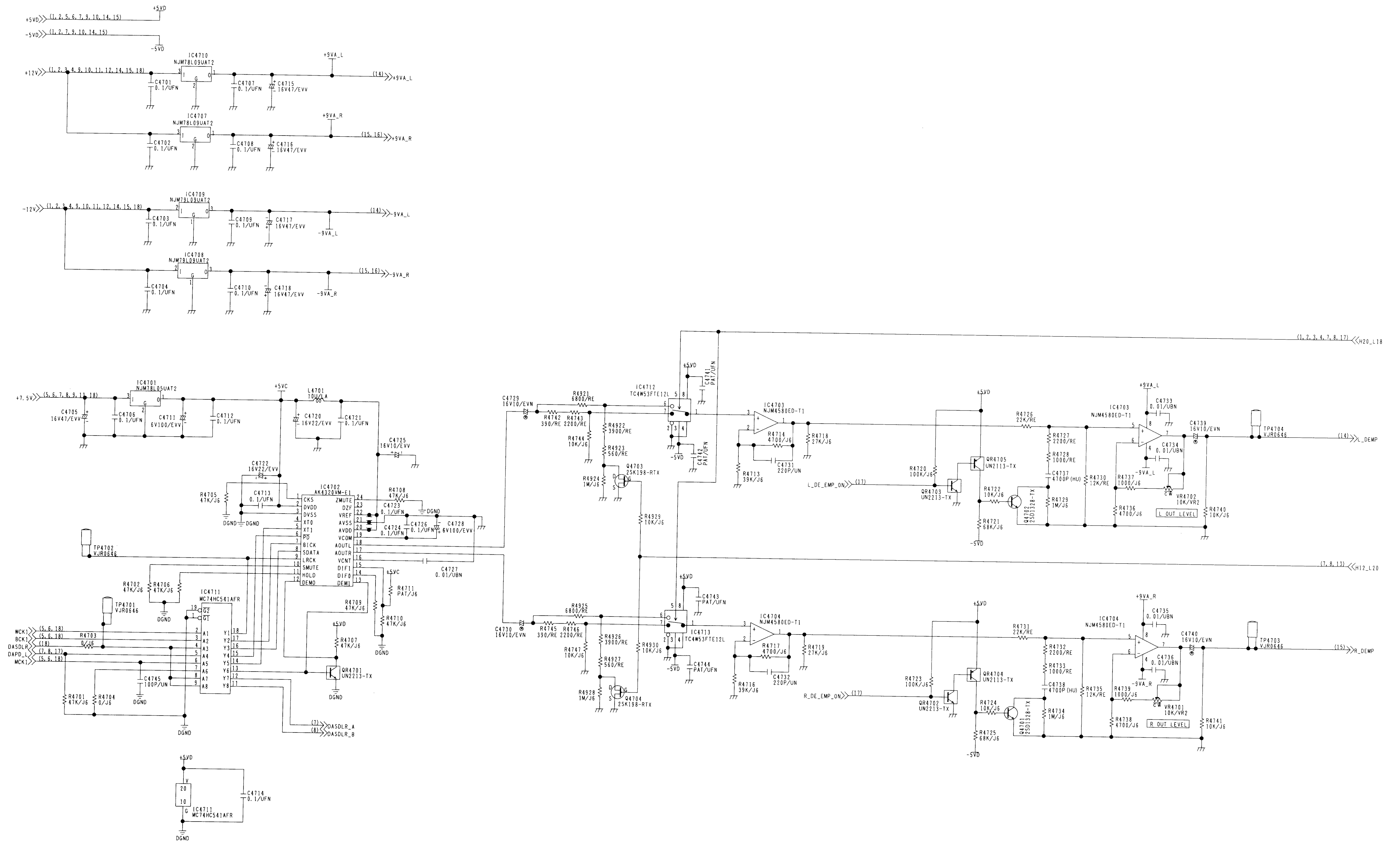
コントロール信号		出力レベル	
(SEL_1)　A	(SEL_0)　B		
0	0	Y0	-3dBu
1	0	Y1	−20dBu
0	1	Y2	0dBu
1	1	Y3	+4dBu

REF No.	T, P, E	EG
R4654	15K/RE	PAT/RE
R4655	15K/RE	PAT/RE
R4656	15K/RE	PAT/RE
R4657	15K/RE	2700/RE
R4662	15K/RE	7500/RE
VR4627	500/VR1	PAT/VR1

Ref No4000 Series (4626-4700)
R(4626-4685)

KR4H35(12/18)

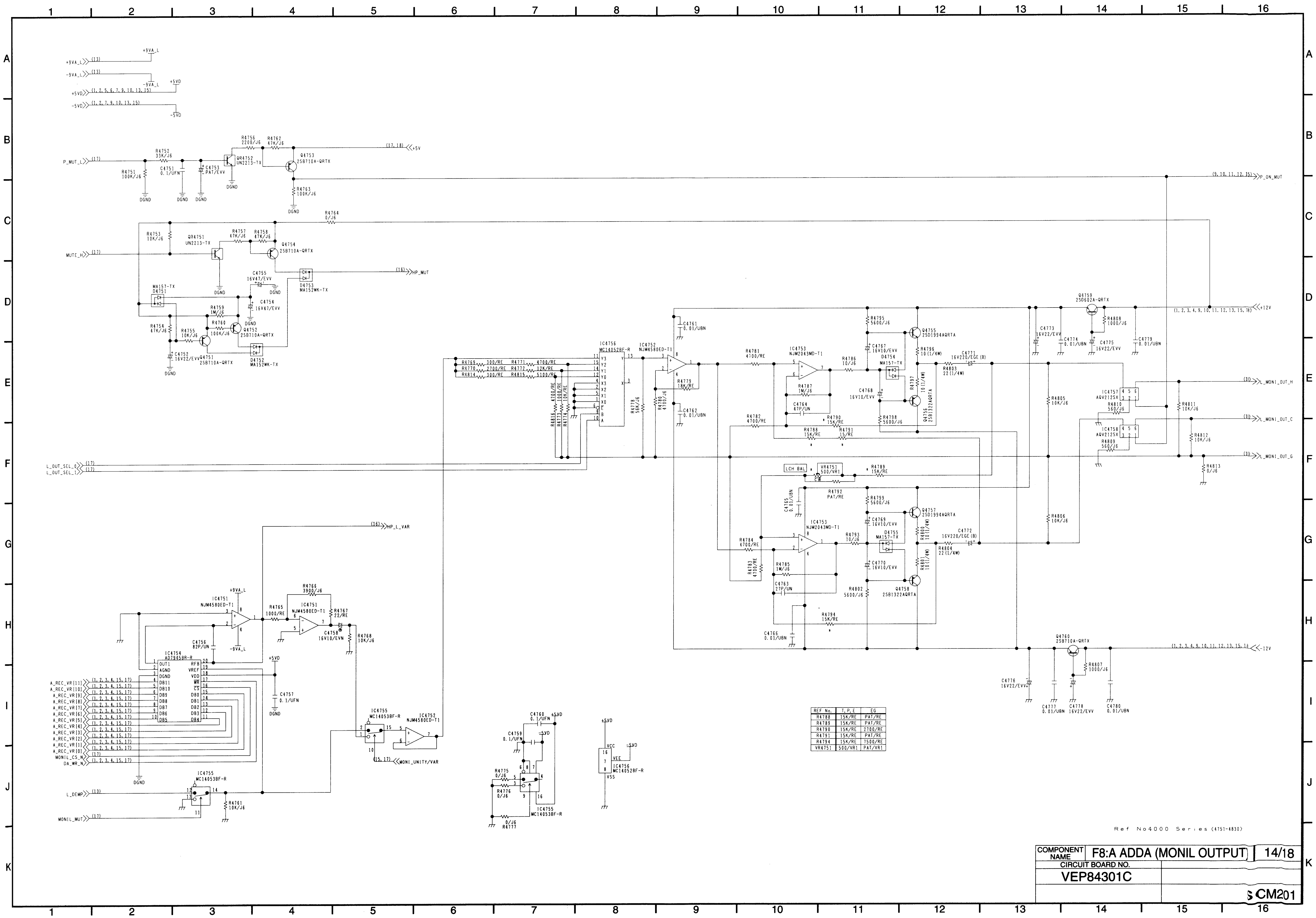
COMPONENT NAME	F8:A ADDA (CH4 OUTPUT)	12/18
CIRCUIT BOARD NO.		
VEP84301C		
	SCM199	


+5VD
-5VD
+12V
-12V
+7.5V
IC4710 NJM78L09UAT2
IC4707 NJM78L09UAT2
IC4709 NJM79L09UAT2
IC4708 NJM79L09UAT2
IC4701 NJM78L05UAT2
+9VA_L
+9VA_R
-9VA_L
-9VA_R
L4701 10U/LA
IC4702 AK4320VM-E1
IC4711 MC74HC541AFR
IC4712 TC4W53FTE12L
IC4713 TC4W53FTE12L
IC4703 NJM4580ED-T1
IC4704 NJM4580ED-T1
Q4703 2SK198-RTX
Q4704 2SK198-RTX
QR4701 UN2213-TX
QR4703 UN2213-TX
QR4705 UN2113-TX
QR4702 UN2213-TX
QR4704 UN2113-TX
Q4701 2SD1328-TX
TP4701 VJR0646
TP4702 VJR0646
TP4703 VJR0646
TP4704 VJR0646
VR4702 10K/VR2
VR4701 10K/VR2
L OUT LEVEL
R OUT LEVEL
WCK1
BCK1
DASDLR
DAPD_L
MCK1
DASDLR_A
DASDLR_B
L_DE_EMP_ON
R_DE_EMP_ON
H20_L18
H12_L20
L_DEMP
R_DEMP
DGND

Ref No4000 Series (4701-4750)

COMPONENT NAME	F8:A ADDA (MONI L OUTPUT)	13/18
CIRCUIT BOARD NO.		
VEP84301C		
		SCM200

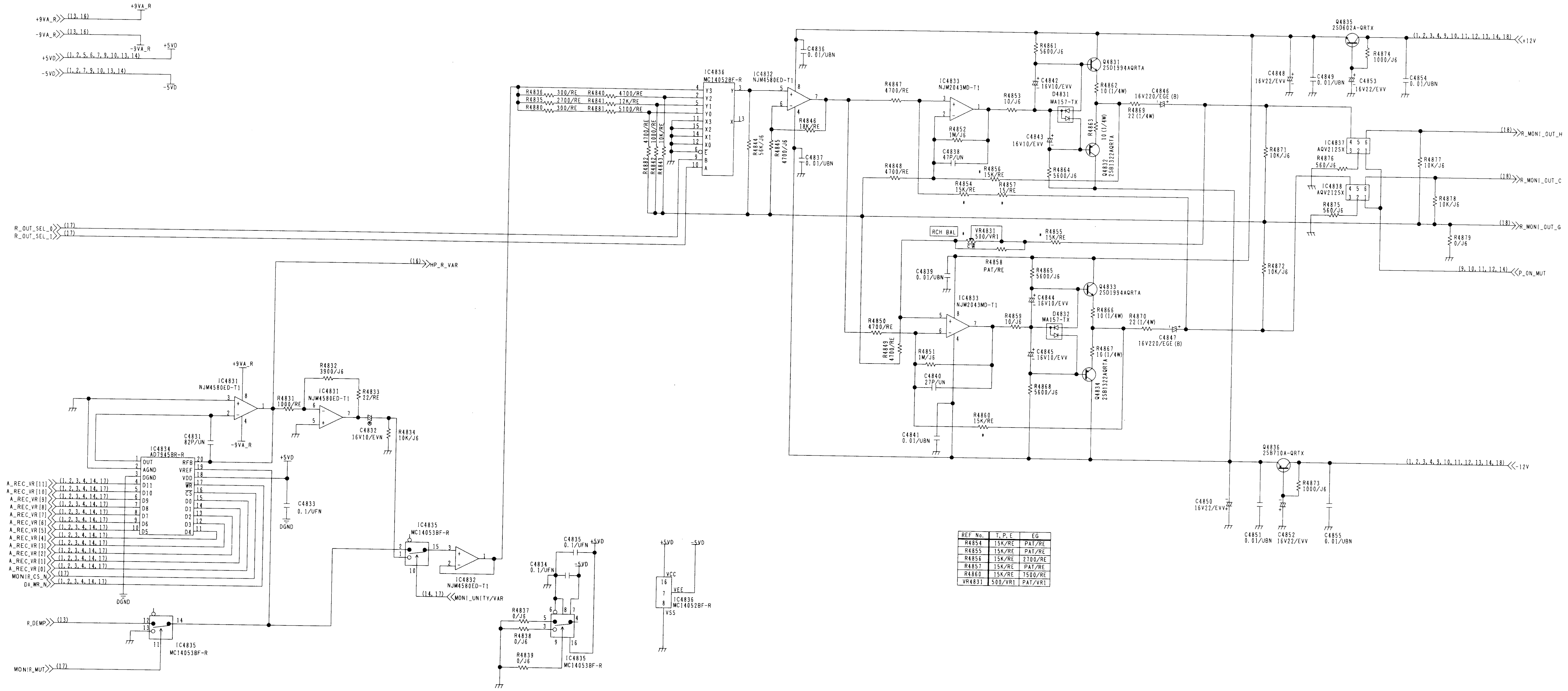
KR4H35(13/18)


+9VA_L
-9VA_L
+5VD
-5VD
P_MUT_L
MUTE_H
HP_MUT
P_ON_MUT
+5V
+12V
-12V
L_OUT_SEL_0
L_OUT_SEL_1
L_MONI_OUT_H
L_MONI_OUT_C
L_MONI_OUT_G
HP_L_VAR
MONI_UNITY/VAR
L_DEMP
MONIL_MUT
A_REC_VR[11]
A_REC_VR[10]
A_REC_VR[9]
A_REC_VR[8]
A_REC_VR[7]
A_REC_VR[6]
A_REC_VR[5]
A_REC_VR[4]
A_REC_VR[3]
A_REC_VR[2]
A_REC_VR[1]
A_REC_VR[0]
MONIL_CS_N
DA_WR_N
IC4754 AD7945BR-R
IC4751 NJM4580ED-T1
IC4752 NJM4580ED-T1
IC4753 NJM2043MD-T1
IC4755 MC14053BF-R
IC4756 MC14052BF-R
IC4757 AQV212SX
IC4758 AQV212SX
Q4753 2SB710A-QRTX
Q4754 2SB710A-QRTX
Q4755 2SD1994AQRTA
Q4756 2SB1322AQRTA
Q4757 2SD1994AQRTA
Q4758 2SB1322AQRTA
Q4759 2SD602A-QRTX
Q4760 2SB710A-QRTX
QR4751 UN2213-TX
QR4752 UN2213-TX
D4751 MA157-TX
D4752 MA152WK-TX
D4753 MA152WK-TX
D4754 MA157-TX
D4755 MA157-TX
LCH BAL
VR4751 500/VR1
DGND
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

Ref No4000 Series (4751-4830)

REF No.	T, P, E	EG
R4788	15K/RE	PAT/RE
R4789	15K/RE	PAT/RE
R4790	15K/RE	2700/RE
R4791	15K/RE	PAT/RE
R4794	15K/RE	7500/RE
VR4751	500/VR1	PAT/VR1

COMPONENT NAME	F8:A ADDA (MONIL OUTPUT)	14/18
CIRCUIT BOARD NO.		
VEP84301C		
	CM201	

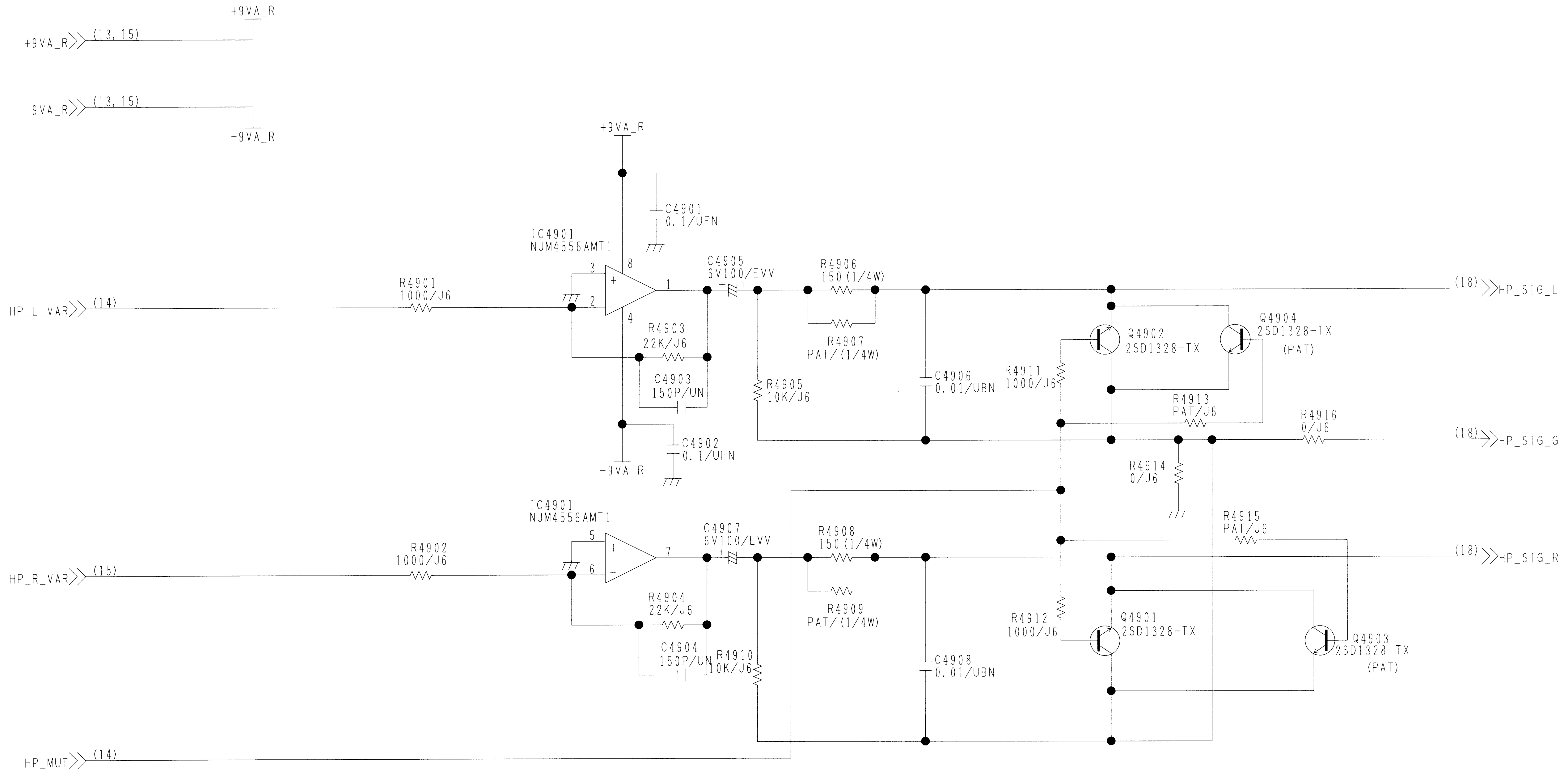

+9VA_R
-9VA_R
+5VD
-5VD
IC4836 MC14052BF-R
IC4832 NJM4580ED-T1
IC4833 NJM2043MD-T1
IC4831 NJM4580ED-T1
IC4834 AD7945BR-R
IC4835 MC14053BF-R
IC4837 AQV212SX
IC4838 AQV212SX
Q4831 2SD1994AQRTA
Q4832 2SB1322AQRTA
Q4833 2SD1994AQRTA
Q4834 2SB1322AQRTA
Q4835 2SD601A-QRTX
Q4836 2SB710A-QRTX
VR4831 500/VR1
RCH BAL
R_OUT_SEL_0
R_OUT_SEL_1
HP_R_VAR
R_MONI_OUT_H
R_MONI_OUT_C
R_MONI_OUT_G
P_ON_MUT
+12V
-12V
A_REC_VR[11]
A_REC_VR[10]
A_REC_VR[9]
A_REC_VR[8]
A_REC_VR[7]
A_REC_VR[6]
A_REC_VR[5]
A_REC_VR[4]
A_REC_VR[3]
A_REC_VR[2]
A_REC_VR[1]
A_REC_VR[0]
MONIR_CS_N
DA_WR_N
R_DEMP
MONIR_MUT
MONI_UNITY/VAR
DGND

REF No.	T, P, E	EG
R4854	15K/RE	PAT/RE
R4855	15K/RE	PAT/RE
R4856	15K/RE	2700/RE
R4857	15K/RE	PAT/RE
R4860	15K/RE	7500/RE
VR4831	500/VR1	PAT/VR1

Ref No4000 Series (4831-4900)

COMPONENT NAME	F8:A ADDA (MONIR OUTPUT)	15/18
CIRCUIT BOARD NO.		
VEP84301C		
		SCM202

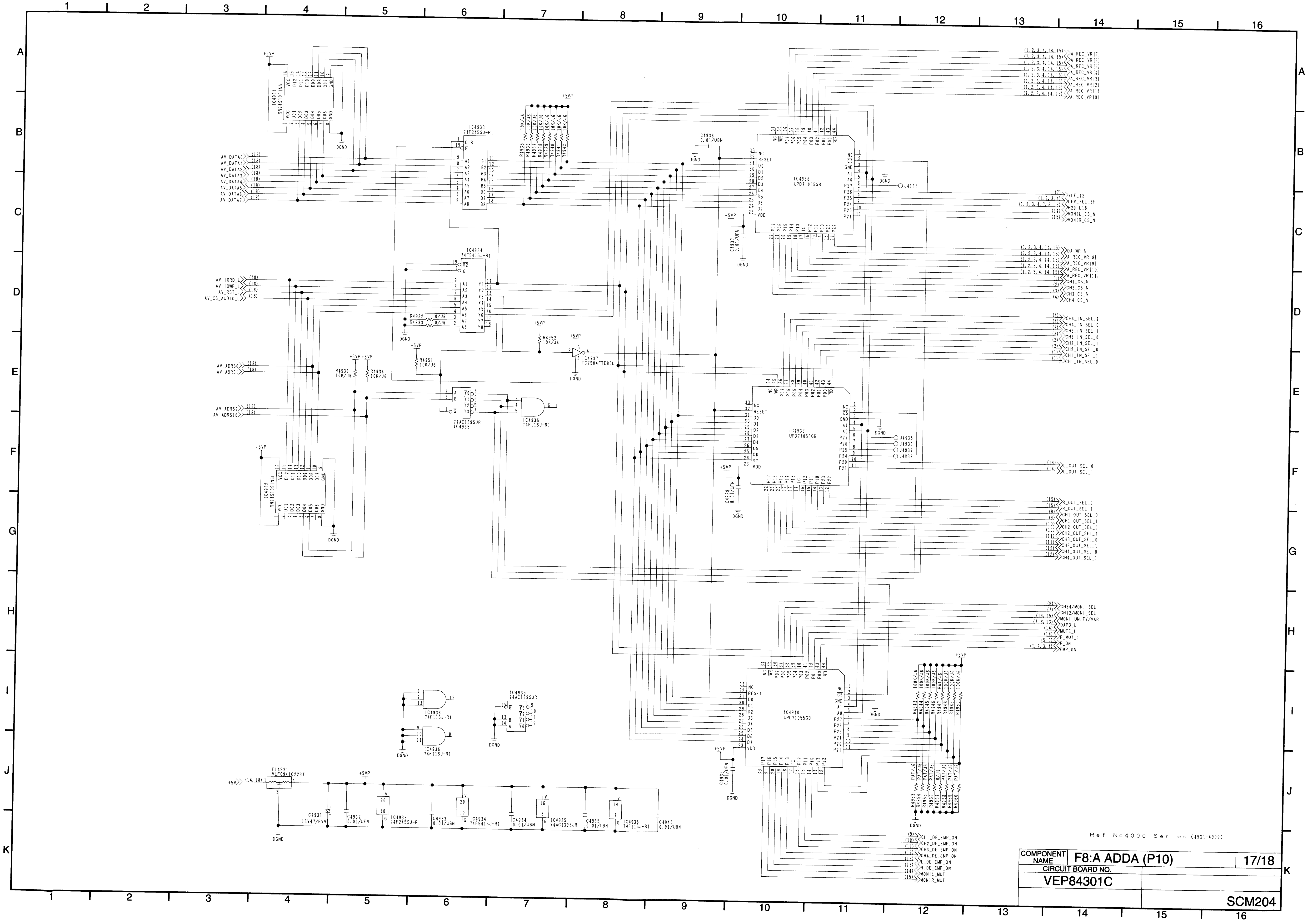
KR4H35(15/18)


+9VA_R
+9VA_R
(13, 15)
-9VA_R
(13, 15)
-9VA_R
+9VA_R
C4901
0.1/UFN
IC4901
NJM4556AMT1
HP_L_VAR
(14)
R4901
1000/J6
C4905
6V100/EVV
R4906
150(1/4W)
R4907
PAT/(1/4W)
R4903
22K/J6
C4903
150P/UN
R4905
10K/J6
C4902
0.1/UFN
-9VA_R
C4906
0.01/UBN
R4911
1000/J6
Q4902
2SD1328-TX
Q4904
2SD1328-TX
(PAT)
R4913
PAT/J6
R4916
0/J6
R4914
0/J6
(18)
HP_SIG_L
(18)
HP_SIG_G
IC4901
NJM4556AMT1
HP_R_VAR
(15)
R4902
1000/J6
C4907
6V100/EVV
R4908
150(1/4W)
R4909
PAT/(1/4W)
R4904
22K/J6
C4904
150P/UN
R4910
10K/J6
C4908
0.01/UBN
R4915
PAT/J6
(18)
HP_SIG_R
R4912
1000/J6
Q4901
2SD1328-TX
Q4903
2SD1328-TX
(PAT)
HP_MUT
(14)

Ref No4000 Series (4901-4930)

COMPONENT NAME	F8:A ADDA (HP OUTPUT)	16/18
CIRCUIT BOARD NO.		
VEP84301C		
		SCM203

KR4H35(16/18)


IC4931
SN74S1051NSL
IC4932
SN74S1051NSL
IC4933
74F245SJ-R1
IC4934
74F541SJ-R1
IC4935
74AC139SJR
IC4936
74F11SJ-R1
IC4937
TC7S04FTE85L
IC4938
UPD71055GB
IC4939
UPD71055GB
IC4940
UPD71055GB
FL4931
VLF0941C223T
C4931
16V47/EVV
C4932
0.01/UFN
C4933
0.01/UBN
C4934
0.01/UBN
C4935
0.01/UBN
C4936
0.01/UBN
C4937
0.01/UFN
C4938
0.01/UFN
C4939
0.01/UFN
C4940
0.01/UBN
R4931
10K/J6
R4934
10K/J6
R4951
10K/J6
R4952
10K/J6
R4932 0/J6
R4933 0/J6
R4935
R4936
R4937
R4938
R4939
R4940
R4941
R4942
10K/J6
R4943
R4944
R4945
R4946
R4947
R4948
R4949
R4950
100K/J6
R4953
R4954
R4955
R4956
R4957
R4958
R4959
R4960
PA/J6
0/J6
J4931
J4935
J4936
J4937
J4938
+5VP
+5V
DGND
AV_DATA0 (18)
AV_DATA1 (18)
AV_DATA2 (18)
AV_DATA3 (18)
AV_DATA4 (18)
AV_DATA5 (18)
AV_DATA6 (18)
AV_DATA7 (18)
AV_IORD_L (18)
AV_IOWR_L (18)
AV_RST_L (18)
AV_CS_AUDIO_L (18)
AV_ADRS0 (18)
AV_ADRS1 (18)
AV_ADRS9 (18)
AV_ADRS10 (18)
+5V (14, 18)
(1, 2, 3, 4, 14, 15) A_REC_VR[7]
(1, 2, 3, 4, 14, 15) A_REC_VR[6]
(1, 2, 3, 4, 14, 15) A_REC_VR[5]
(1, 2, 3, 4, 14, 15) A_REC_VR[4]
(1, 2, 3, 4, 14, 15) A_REC_VR[3]
(1, 2, 3, 4, 14, 15) A_REC_VR[2]
(1, 2, 3, 4, 14, 15) A_REC_VR[1]
(1, 2, 3, 4, 14, 15) A_REC_VR[0]
(7) YLE_12
(1, 2, 3, 4) LEV_SEL_3H
(1, 2, 3, 4, 7, 8, 13) H20_L18
(14) MONIL_CS_N
(15) MONIR_CS_N
(1, 2, 3, 4, 14, 15) DA_WR_N
(1, 2, 3, 4, 14, 15) A_REC_VR[8]
(1, 2, 3, 4, 14, 15) A_REC_VR[9]
(1, 2, 3, 4, 14, 15) A_REC_VR[10]
(1, 2, 3, 4, 14, 15) A_REC_VR[11]
(1) CH1_CS_N
(2) CH2_CS_N
(3) CH3_CS_N
(4) CH4_CS_N
(4) CH4_IN_SEL_1
(4) CH4_IN_SEL_0
(3) CH3_IN_SEL_1
(3) CH3_IN_SEL_0
(2) CH2_IN_SEL_1
(2) CH2_IN_SEL_0
(1) CH1_IN_SEL_1
(1) CH1_IN_SEL_0
(14) L_OUT_SEL_0
(14) L_OUT_SEL_1
(15) R_OUT_SEL_0
(15) R_OUT_SEL_1
(9) CH1_OUT_SEL_0
(9) CH1_OUT_SEL_1
(10) CH2_OUT_SEL_0
(10) CH2_OUT_SEL_1
(11) CH3_OUT_SEL_0
(11) CH3_OUT_SEL_1
(12) CH4_OUT_SEL_0
(12) CH4_OUT_SEL_1
(8) CH34/MONI_SEL
(7) CH12/MONI_SEL
(14, 15) MONI_UNITY/VAR
(7, 8, 13) DAPD_L
(14) MUTE_H
(14) P_MUT_L
(5, 6) P_ON
(1, 2, 3, 4) EMP_ON
(9) CH1_DE_EMP_ON
(10) CH2_DE_EMP_ON
(11) CH3_DE_EMP_ON
(12) CH4_DE_EMP_ON
(13) L_DE_EMP_ON
(13) R_DE_EMP_ON
(14) MONIL_MUT
(15) MONIR_MUT
Ref No4000 Series (4931-4999)

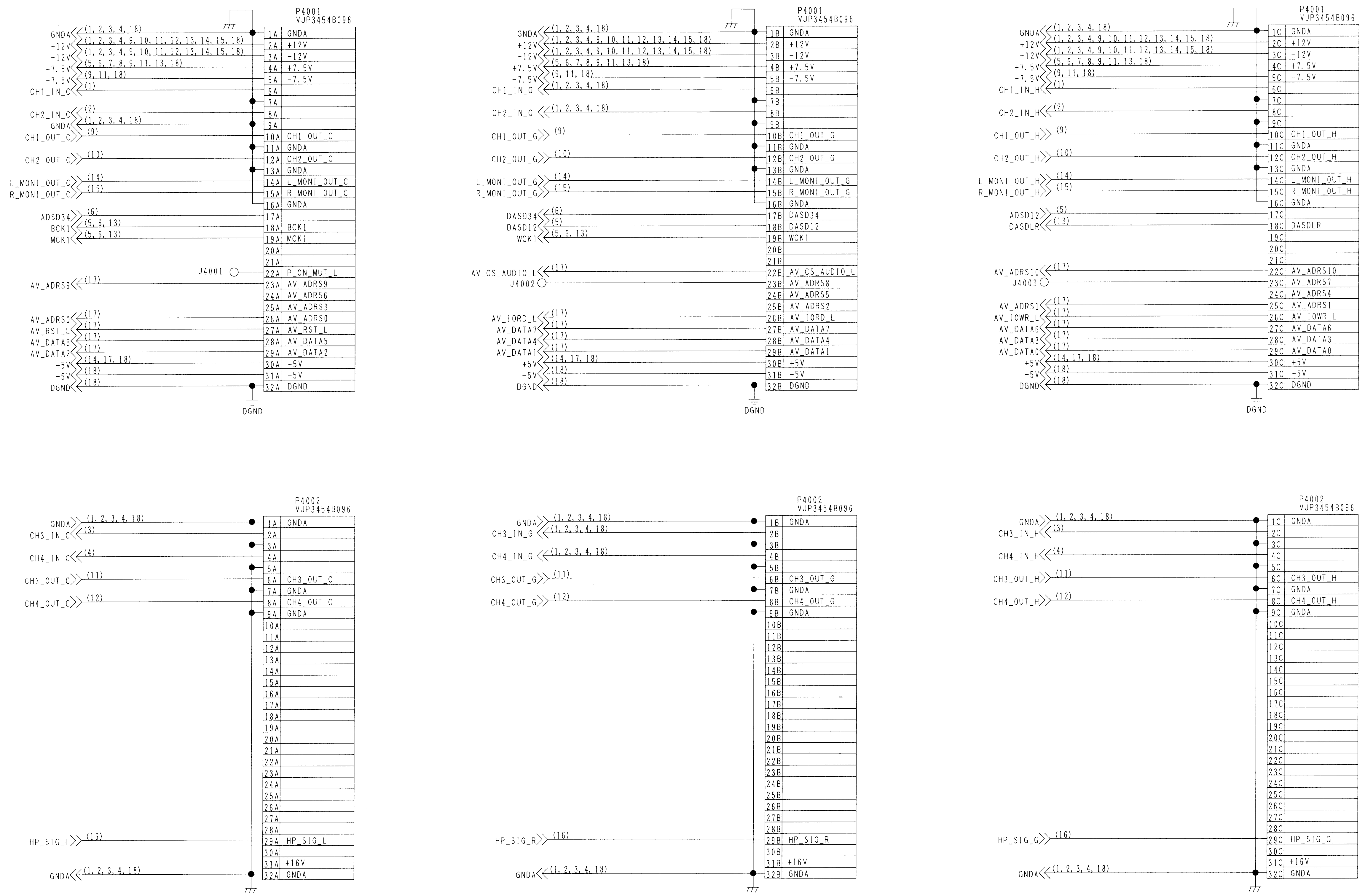
COMPONENT NAME: F8:A ADDA (P10) — 17/18

CIRCUIT BOARD NO.

VEP84301C

SCM204

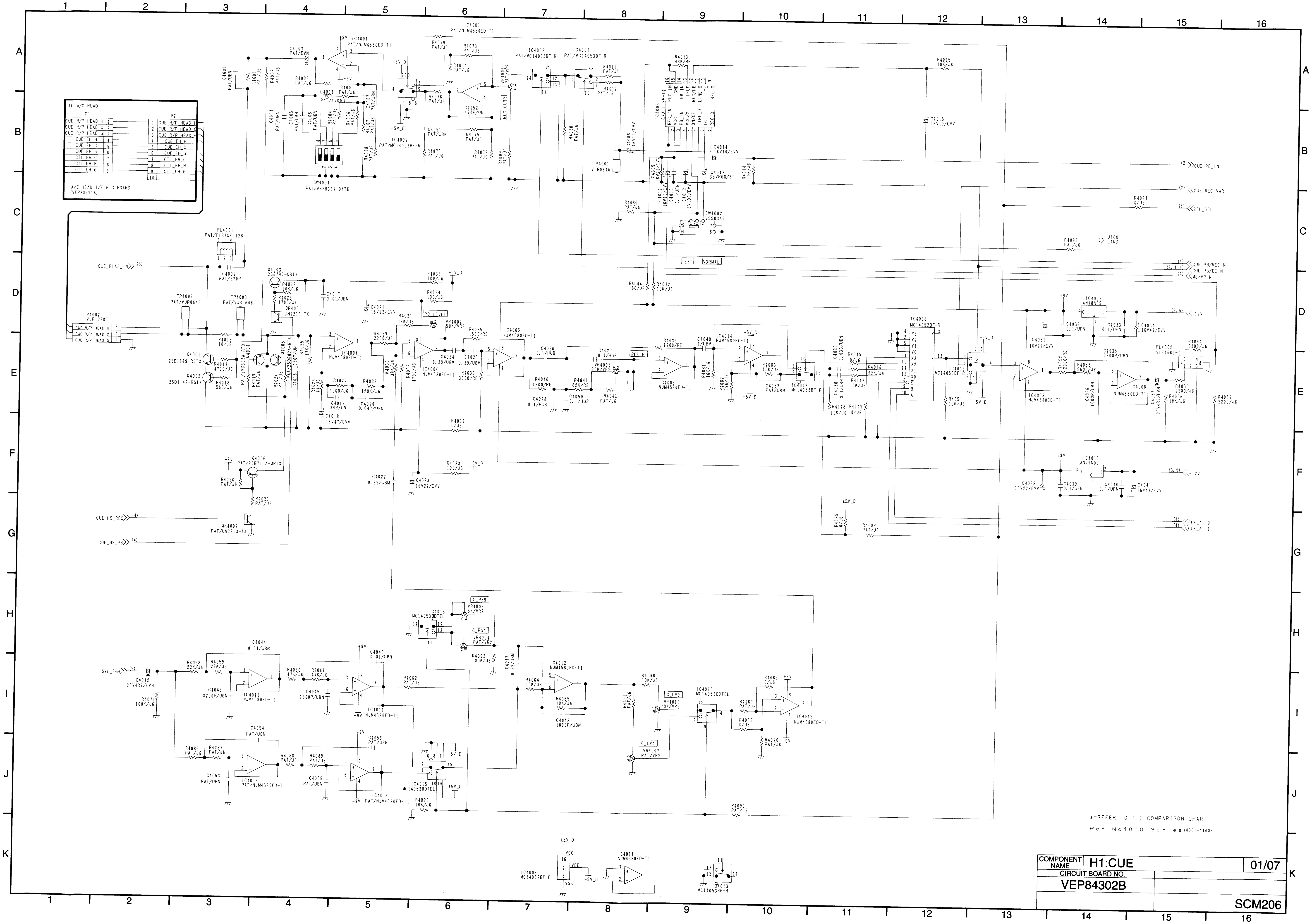
KR4H35(17/18)


P4001
VJP3454B096
GNDA (1, 2, 3, 4, 18) 1A GNDA
+12V (1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 18) 2A +12V
-12V (1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 18) 3A -12V
+7.5V (5, 6, 7, 8, 9, 11, 13, 18) 4A +7.5V
-7.5V (9, 11, 18) 5A -7.5V
CH1_IN_C (1) 6A
7A
CH2_IN_C (2) 8A
GNDA (1, 2, 3, 4, 18) 9A
CH1_OUT_C (9) 10A CH1_OUT_C
11A GNDA
CH2_OUT_C (10) 12A CH2_OUT_C
13A GNDA
L_MONI_OUT_C (14) 14A L_MONI_OUT_C
R_MONI_OUT_C (15) 15A R_MONI_OUT_C
16A GNDA
ADSD34 (6) 17A
BCK1 (5, 6, 13) 18A BCK1
MCK1 (5, 6, 13) 19A MCK1
20A
21A
J4001 22A P_ON_MUT_L
AV_ADRS9 (17) 23A AV_ADRS9
24A AV_ADRS6
25A AV_ADRS3
AV_ADRS0 (17) 26A AV_ADRS0
AV_RST_L (17) 27A AV_RST_L
AV_DATA5 (17) 28A AV_DATA5
AV_DATA2 (17) 29A AV_DATA2
+5V (14, 17, 18) 30A +5V
-5V (18) 31A -5V
DGND (18) 32A DGND
DGND
P4001
VJP3454B096
GNDA (1, 2, 3, 4, 18) 1B GNDA
+12V (1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 18) 2B +12V
-12V (1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 18) 3B -12V
+7.5V (5, 6, 7, 8, 9, 11, 13, 18) 4B +7.5V
-7.5V (9, 11, 18) 5B -7.5V
CH1_IN_G (1, 2, 3, 4, 18) 6B
7B
CH2_IN_G (1, 2, 3, 4, 18) 8B
9B
CH1_OUT_G (9) 10B CH1_OUT_G
11B GNDA
CH2_OUT_G (10) 12B CH2_OUT_G
13B GNDA
L_MONI_OUT_G (14) 14B L_MONI_OUT_G
R_MONI_OUT_G (15) 15B R_MONI_OUT_G
16B GNDA
DASD34 (6) 17B DASD34
DASD12 (5) 18B DASD12
WCK1 (5, 6, 13) 19B WCK1
20B
21B
AV_CS_AUDIO_L (17) 22B AV_CS_AUDIO_L
J4002 23B AV_ADRS8
24B AV_ADRS5
25B AV_ADRS2
AV_IORD_L (17) 26B AV_IORD_L
AV_DATA7 (17) 27B AV_DATA7
AV_DATA4 (17) 28B AV_DATA4
AV_DATA1 (17) 29B AV_DATA1
+5V (14, 17, 18) 30B +5V
-5V (18) 31B -5V
DGND (18) 32B DGND
DGND
P4001
VJP3454B096
GNDA (1, 2, 3, 4, 18) 1C GNDA
+12V (1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 18) 2C +12V
-12V (1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 18) 3C -12V
+7.5V (5, 6, 7, 8, 9, 11, 13, 18) 4C +7.5V
-7.5V (9, 11, 18) 5C -7.5V
CH1_IN_H (1) 6C
7C
CH2_IN_H (2) 8C
9C
CH1_OUT_H (9) 10C CH1_OUT_H
11C GNDA
CH2_OUT_H (10) 12C CH2_OUT_H
13C GNDA
L_MONI_OUT_H (14) 14C L_MONI_OUT_H
R_MONI_OUT_H (15) 15C R_MONI_OUT_H
16C GNDA
ADSD12 (5) 17C
DASDLR (13) 18C DASDLR
19C
20C
21C
AV_ADRS10 (17) 22C AV_ADRS10
J4003 23C AV_ADRS7
24C AV_ADRS4
AV_ADRS1 (17) 25C AV_ADRS1
AV_IOWR_L (17) 26C AV_IOWR_L
AV_DATA6 (17) 27C AV_DATA6
AV_DATA3 (17) 28C AV_DATA3
AV_DATA0 (17) 29C AV_DATA0
+5V (14, 17, 18) 30C +5V
-5V (18) 31C -5V
DGND (18) 32C DGND
DGND
P4002
VJP3454B096
GNDA (1, 2, 3, 4, 18) 1A GNDA
CH3_IN_C (3) 2A
3A
CH4_IN_C (4) 4A
5A
CH3_OUT_C (11) 6A CH3_OUT_C
7A GNDA
CH4_OUT_C (12) 8A CH4_OUT_C
9A GNDA
10A 11A 12A 13A 14A 15A 16A 17A 18A 19A 20A 21A 22A 23A 24A 25A 26A 27A 28A
HP_SIG_L (16) 29A HP_SIG_L
30A
31A +16V
GNDA (1, 2, 3, 4, 18) 32A GNDA
P4002
VJP3454B096
GNDA (1, 2, 3, 4, 18) 1B GNDA
CH3_IN_G (1, 2, 3, 4, 18) 2B
3B
CH4_IN_G (1, 2, 3, 4, 18) 4B
5B
CH3_OUT_G (11) 6B CH3_OUT_G
7B GNDA
CH4_OUT_G (12) 8B CH4_OUT_G
9B GNDA
10B 11B 12B 13B 14B 15B 16B 17B 18B 19B 20B 21B 22B 23B 24B 25B 26B 27B 28B
HP_SIG_R (16) 29B HP_SIG_R
30B
31B +16V
GNDA (1, 2, 3, 4, 18) 32B GNDA
P4002
VJP3454B096
GNDA (1, 2, 3, 4, 18) 1C GNDA
CH3_IN_H (3) 2C
3C
CH4_IN_H (4) 4C
5C
CH3_OUT_H (11) 6C CH3_OUT_H
7C GNDA
CH4_OUT_H (12) 8C CH4_OUT_H
9C GNDA
10C 11C 12C 13C 14C 15C 16C 17C 18C 19C 20C 21C 22C 23C 24C 25C 26C 27C 28C
HP_SIG_G (16) 29C HP_SIG_G
30C
31C +16V
GNDA (1, 2, 3, 4, 18) 32C GNDA

Ref No4000 Series

COMPONENT NAME	F8:A ADDA (CONNECTOR)	18/18
CIRCUIT BOARD NO.		
VEP84301C		
	SCM205	

KR4H35(18/18)

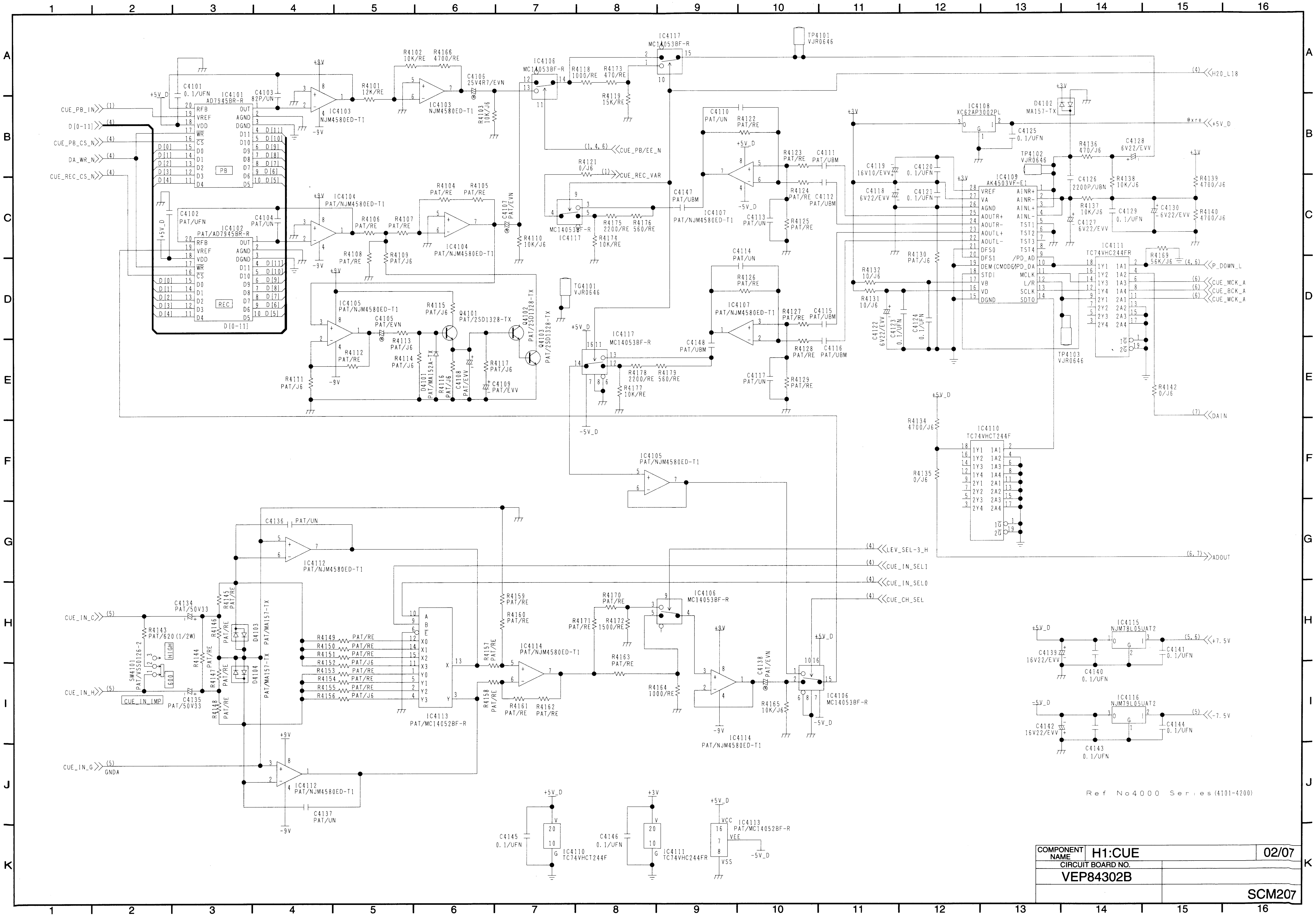

TO A/C HEAD
P1
P2
CUE R/P HEAD H
CUE R/P HEAD C
CUE R/P HEAD G
CUE EH H
CUE EH C
CUE EH G
CTL EH H
CTL EH C
CTL EH G
A/C HEAD I/F P.C.BOARD
(VEP80993A)
FL4001
PAT/EIR7QF012B
CUE_BIAS_IN
TP4002
PAT/VJR0646
TP4003
PAT/VJR0646
P4002
VJP1230T
Q4001
2SD1149-RSTX
Q4002
2SD1149-RSTX
Q4003
2SB792-QRTX
QR4001
UN2213-TX
Q4006
PAT/2SB710A-QRTX
QR4002
PAT/UN2213-TX
CUE_HS_REC
CUE_HS_PB
IC4001
PAT/NJM4580ED-T1
IC4002
PAT/MC14053BF-R
SW4001
PAT/VSS0367-047B
IC4003
CXA1182M-T4
TP4001
VJR0646
SW4002
VSS0342
TEST
NORMAL
REC CURR
PB LEVEL
REF F
IC4004
NJM4580ED-T1
IC4005
NJM4580ED-T1
IC4006
MC14052BF-R
IC4008
NJM4580ED-T1
IC4009
AN78N09
IC4010
AN79N09
IC4013
MC14053BF-R
IC4014
NJM4580ED-T1
FL4002
VLF1069-T
J4001
LAND
CUE_PB_IN
CUE_REC_VAR
25H_50L
CUE_PB/REC_N
CUE_PB/EE_N
ME/MP_N
+12V
-12V
CUE_ATT0
CUE_ATT1
SYL_FG+
IC4011
NJM4580ED-T1
IC4012
NJM4580ED-T1
IC4015
MC14053BDTEL
IC4016
PAT/NJM4580ED-T1
C_PS9
C_PS4
C_LV9
C_LV4
VR4003
VR4004
VR4006
VR4007
+5V_D
-5V_D
+9V
-9V
VCC
VEE
VSS

*=REFER TO THE COMPARISON CHART

Ref No4000 Series (4001-4100)

COMPONENT NAME	H1:CUE	01/07
CIRCUIT BOARD NO.		
VEP84302B		
		SCM206

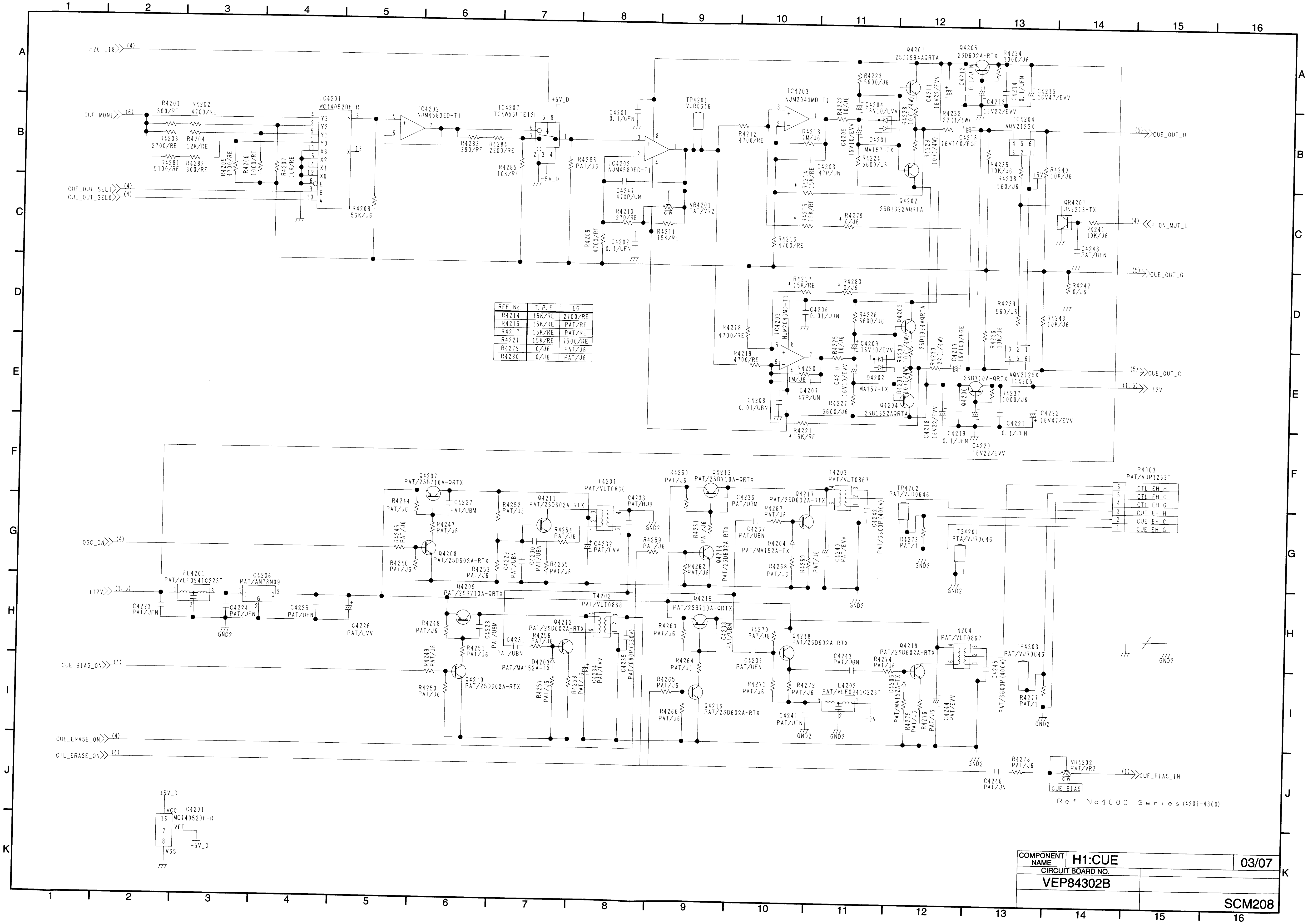
KR4H36(1/7)


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K
CUE_PB_IN
D[0-11]
CUE_PB_CS_N
DA_WR_N
CUE_REC_CS_N
C4101 0.1/UFN
IC4101 AD7945BR-R
PB
C4102 PAT/UFN
IC4102 PAT/AD7945BR-R
REC
C4103 82P/UN
C4104 PAT/UN
IC4103 NJM4580ED-T1
IC4104 PAT/NJM4580ED-T1
R4101 12K/RE
R4102 10K/RE
R4166 4700/RE
C4106 2SV4R7/EVN
R4103 10K/J6
IC4106 MC14053BF-R
R4118 1000/RE
R4173 470/RE
R4119 15K/RE
IC4117 MC14053BF-R
TP4101 VJR0646
CUE_PB/EE_N
R4121 0/J6
CUE_REC_VAR
R4104 PAT/RE
R4105 PAT/RE
R4106 PAT/RE
R4107 PAT/RE
R4108 PAT/RE
R4109 PAT/J6
C4107 PAT/EVN
R4110 10K/J6
MC14053BF-R IC4117
R4175 2200/RE
R4176 560/RE
R4174 10K/RE
C4147 PAT/UBM
IC4107 PAT/NJM4580ED-T1
C4110 PAT/UN
R4122 PAT/RE
R4123 PAT/RE
C4111 PAT/UBM
R4124 PAT/RE
C4112 PAT/UBM
C4113 PAT/UN
R4125 PAT/RE
IC4105 PAT/NJM4580ED-T1
C4105 PAT/EVN
R4115 PAT/J6
Q4101 PAT/2SD1328-TX
Q4102 PAT/2SD1328-TX
Q4103 PAT/2SD1328-TX
R4113 PAT/J6
R4114 PAT/J6
R4112 PAT/RE
R4111 PAT/J6
D4101 PAT/MA152A-TX
R4116 PAT/J6
C4108 PAT/EVV
R4117 PAT/J6
C4109 PAT/EVV
TG4101 VJR0646
IC4117 MC14053BF-R
C4148 PAT/UBM
R4178 2200/RE
R4179 560/RE
R4177 10K/J6
C4114 PAT/UN
R4126 PAT/RE
R4127 PAT/RE
C4115 PAT/UBM
R4128 PAT/RE
C4116 PAT/UBM
C4117 PAT/UN
R4129 PAT/RE
IC4108 XC62AP3002PL
C4125 0.1/UFN
D4102 MA157-TX
TP4102 VJR0645
C4119 16V10/EVV
C4120 0.1/UFN
C4118 6V22/EVV
C4121 0.1/UFN
IC4109 AK4503VF-E1
VREF VA AGND AOUTR+ AOUTR- AOUTL+ AOUTL- DFS0 DFS1 DEM(CMODE) STDI VB VD DGND
AINR+ AINR- AINL+ AINL- TST1 TST2 TST3 TST4 /PD_AD /PD_DA MCLK L/R SCLK SDTO
R4130 PAT/J6
R4132 10/J6
R4131 10/J6
C4122 6V22/EVV
C4123 0.1/UFN
C4124 0.1/UFN
TP4103 VJR0646
R4136 470/J6
C4128 6V22/EVV
C4126 2200P/UBN
R4138 10K/J6
R4137 10K/J6
C4127 6V22/EVV
C4129 0.1/UFN
C4130 6V22/EVV
R4139 4700/J6
R4140 4700/J6
IC4111 TC74VHC244FR
R4169 56K/J6
R4142 0/J6
H20_L18
+5V_D
P_DOWN_L
CUE_MCK_A
CUE_BCK_A
CUE_WCK_A
DAIN
R4134 4700/J6
R4135 0/J6
IC4110 TC74VHCT244F
ADOUT
IC4105 PAT/NJM4580ED-T1
-5V_D
C4136 PAT/UN
IC4112 PAT/NJM4580ED-T1
LEV_SEL-3_H
CUE_IN_SEL1
CUE_IN_SEL0
CUE_CH_SEL
CUE_IN_C
CUE_IN_H
CUE_IN_G
GNDA
CUE_IN_IMP
C4134 PAT/50V33
C4135 PAT/50V33
R4143 PAT/620(1/2W)
SW4101 PAT/VSS0126-2
HIGH
600
R4144 PAT/RE
R4145 PAT/RE
R4146 PAT/RE
R4147 PAT/RE
R4148 PAT/RE
D4103 PAT/MA157-TX
D4104 PAT/MA157-TX
R4149 PAT/RE
R4150 PAT/RE
R4151 PAT/RE
R4152 PAT/J6
R4153 PAT/RE
R4154 PAT/RE
R4155 PAT/RE
R4156 PAT/J6
IC4113 PAT/MC14052BF-R
R4157 PAT/RE
R4158 PAT/RE
R4159 PAT/RE
R4160 PAT/RE
IC4114 PAT/NJM4580ED-T1
R4161 PAT/RE
R4162 PAT/RE
R4170 PAT/RE
R4171 PAT/RE
R4172 1500/RE
R4163 PAT/RE
R4164 1000/RE
IC4106 MC14053BF-R
C4138 PAT/EVN
R4165 10K/J6
IC4114 PAT/NJM4580ED-T1
IC4112 PAT/NJM4580ED-T1
C4137 PAT/UN
IC4115 NJM78L05UAT2
C4139 16V22/EVV
C4140 0.1/UFN
C4141 0.1/UFN
+7.5V
IC4116 NJM79L05UAT2
C4142 16V22/EVV
C4143 0.1/UFN
C4144 0.1/UFN
-7.5V
C4145 0.1/UFN
IC4110 TC74VHCT244F
C4146 0.1/UFN
IC4111 TC74VHC244FR
IC4113 PAT/MC14052BF-R
+9V
-9V
+3V

Ref No4000 Series(4101-4200)

COMPONENT NAME	H1:CUE	02/07
CIRCUIT BOARD NO.		
VEP84302B		
		SCM207

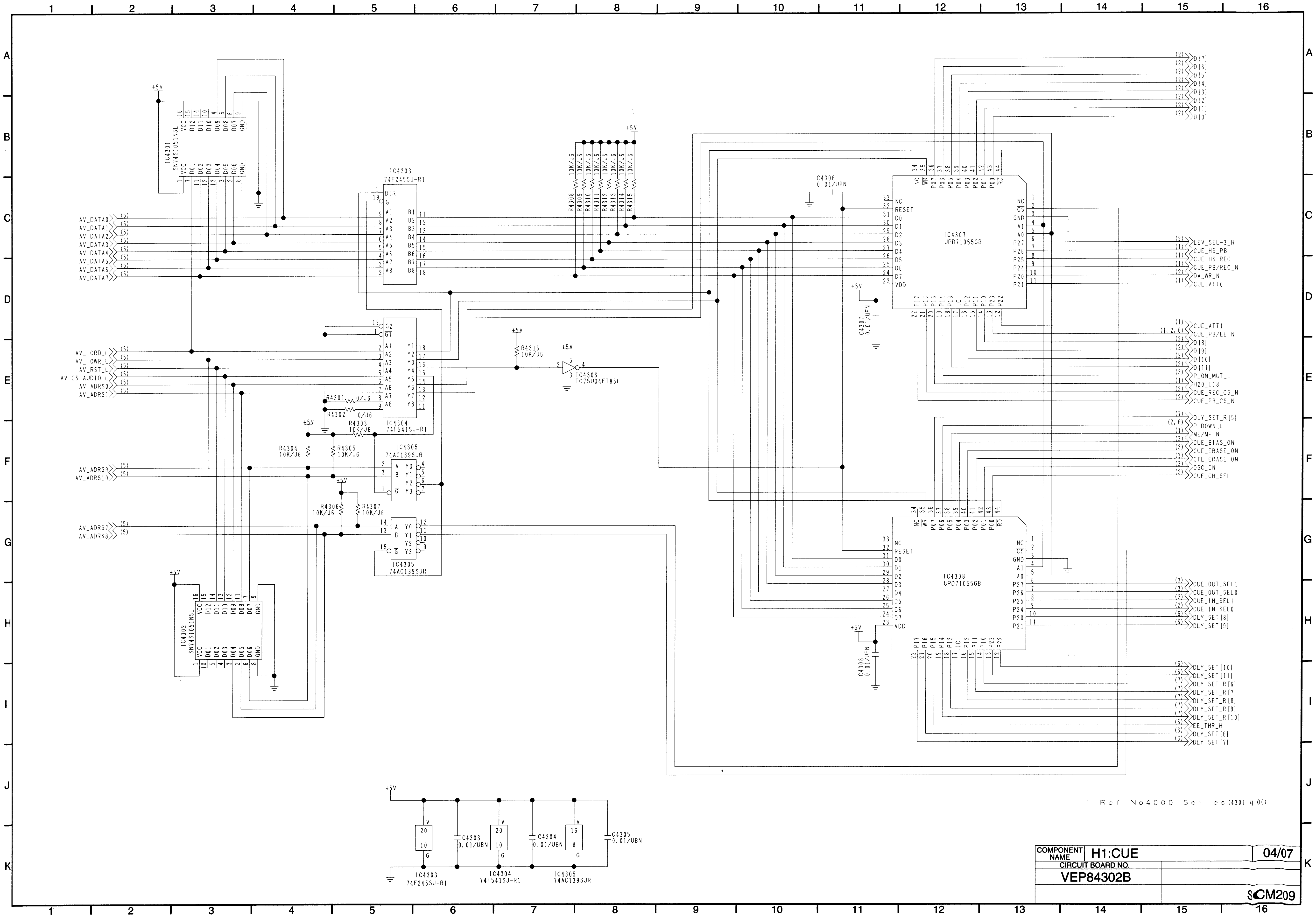
KR4H36(2/7)
)


H20_L18
CUE_MONI
CUE_OUT_SEL1
CUE_OUT_SEL0
IC4201 MC14052BF-R
IC4202 NJM4580ED-T1
IC4207 TC4W53FTE12L
+5V_D
-5V_D
IC4202 NJM4580ED-T1
TP4201 VJR0646
VR4201 PAT/VR2
IC4203 NJM2043MD-T1
Q4201 2SD1994AQRTA
Q4205 2SD602A-RTX
Q4202 2SB1322AQRTA
D4201 MA157-TX
IC4204 AQV212SX
QR4201 UN2213-TX
CUE_OUT_H
P_ON_MUT_L
CUE_OUT_G
CUE_OUT_C
-12V
Q4203 2SD1994AQRTA
Q4204 2SB1322AQRTA
Q4206 2SB710A-QRTX
D4202 MA157-TX
IC4205 AQV212SX
OSC_ON
+12V
FL4201 PAT/VLF0941C223T
IC4206 PAT/AN78N09
Q4207 PAT/2SB710A-QRTX
Q4208 PAT/2SD602A-RTX
Q4209 PAT/2SB710A-QRTX
Q4210 PAT/2SD602A-RTX
Q4211 PAT/2SD602A-RTX
Q4212 PAT/2SD602A-RTX
T4201 PAT/VLT0866
T4202 PAT/VLT0868
D4203 PAT/MA152A-TX
CUE_BIAS_ON
CUE_ERASE_ON
CTL_ERASE_ON
Q4213 PAT/2SB710A-QRTX
Q4214 PAT/2SD602A-RTX
Q4215 PAT/2SB710A-QRTX
Q4216 PAT/2SD602A-RTX
Q4217 PAT/2SD602A-RTX
Q4218 PAT/2SD602A-RTX
Q4219 PAT/2SD602A-RTX
T4203 PAT/VLT0867
T4204 PAT/VLT0867
D4204 PAT/MA152A-TX
D4205 PAT/MA152A-TX
FL4202 PAT/VLF0941C223T
TP4202 PAT/VJR0646
TP4203 PAT/VJR0646
TG4201 PTA/VJR0646
P4003 PAT/VJP1233T
6 CTL_EH_H
5 CTL_EH_C
4 CTL_EH_G
3 CUE_EH_H
2 CUE_EH_C
1 CUE_EH_G
GND2
VR4202 PAT/VR2
CUE_BIAS
CUE_BIAS_IN
IC4201 MC14052BF-R
VCC 16
VEE 7
VSS 8
Ref No4000 Series (4201-4300)

REF No.	T, P, E	EG
R4214	15K/RE	2700/RE
R4215	15K/RE	PAT/RE
R4217	15K/RE	PAT/RE
R4221	15K/RE	7500/RE
R4279	0/J6	PAT/J6
R4280	0/J6	PAT/J6

COMPONENT NAME	H1:CUE	03/07
CIRCUIT BOARD NO.		
VEP84302B		
		SCM208

KR4H36(3/7)


AV_DATA0
AV_DATA1
AV_DATA2
AV_DATA3
AV_DATA4
AV_DATA5
AV_DATA6
AV_DATA7
AV_IORD_L
AV_IOWR_L
AV_RST_L
AV_CS_AUDIO_L
AV_ADRS0
AV_ADRS1
AV_ADRS9
AV_ADRS10
AV_ADRS7
AV_ADRS8
(5)
+5V
IC4301
SN74S1051NSL
IC4302
SN74S1051NSL
IC4303
74F245SJ-R1
IC4304
74F541SJ-R1
IC4305
74AC139SJR
IC4306
TC7SU04FT85L
IC4307
UPD71055GB
IC4308
UPD71055GB
R4301 0/J6
R4302 0/J6
R4303 10K/J6
R4304 10K/J6
R4305 10K/J6
R4306 10K/J6
R4307 10K/J6
R4308
R4309
R4310
R4311
R4312
R4313
R4314
R4315
10K/J6
R4316 10K/J6
C4303 0.01/UBN
C4304 0.01/UBN
C4305 0.01/UBN
C4306 0.01/UBN
C4307 0.01/UFN
C4308 0.01/UFN
D[7]
D[6]
D[5]
D[4]
D[3]
D[2]
D[1]
D[0]
LEV_SEL-3_H
CUE_HS_PB
CUE_HS_REC
CUE_PB/REC_N
DA_WR_N
CUE_ATT0
CUE_ATT1
CUE_PB/EE_N
D[8]
D[9]
D[10]
D[11]
P_ON_MUT_L
H20_L18
CUE_REC_CS_N
CUE_PB_CS_N
DLY_SET_R[5]
P_DOWN_L
ME/MP_N
CUE_BIAS_ON
CUE_ERASE_ON
CTL_ERASE_ON
OSC_ON
CUE_CH_SEL
CUE_OUT_SEL1
CUE_OUT_SEL0
CUE_IN_SEL1
CUE_IN_SEL0
DLY_SET[8]
DLY_SET[9]
DLY_SET[10]
DLY_SET[11]
DLY_SET_R[6]
DLY_SET_R[7]
DLY_SET_R[8]
DLY_SET_R[9]
DLY_SET_R[10]
EE_THR_H
DLY_SET[6]
DLY_SET[7]
(1)
(2)
(3)
(6)
(7)
(1, 2, 6)
(2, 6)
NC
RESET
D0
D1
D2
D3
D4
D5
D6
D7
VDD
CS
GND
A1
A0
P27
P26
P25
P24
P20
P21
RD
WR
P00
P01
P02
P03
P04
P05
P06
P07
P10
P11
P12
P13
P14
P15
P16
P17
P22
P23
IC
DIR
G
A1
A2
A3
A4
A5
A6
A7
A8
B1
B2
B3
B4
B5
B6
B7
B8
G1
G2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
A
B
Y0
VCC
D01
D02
D03
D04
D05
D06
D07
D08
D09
D10
D11
D12
V
G
A
B
C
D
E
F
H
I
J
K
1
2
3
4
5
6
7
8
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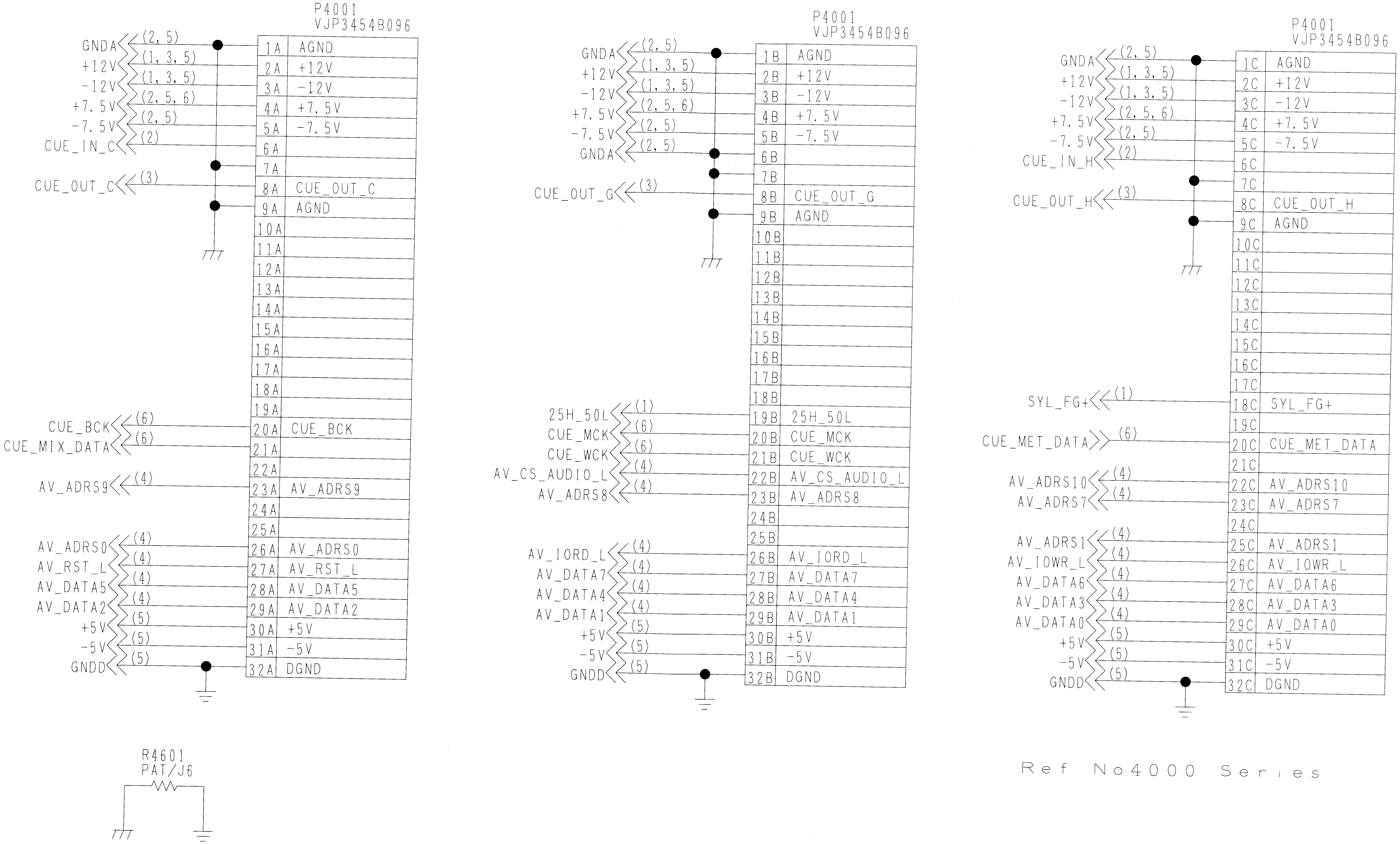
16

Ref No4000 Series(4301-4 00)

COMPONENT NAME	H1:CUE	04/07
CIRCUIT BOARD NO.		
VEP84302B		
		SCM209

KR4H36(4/7)

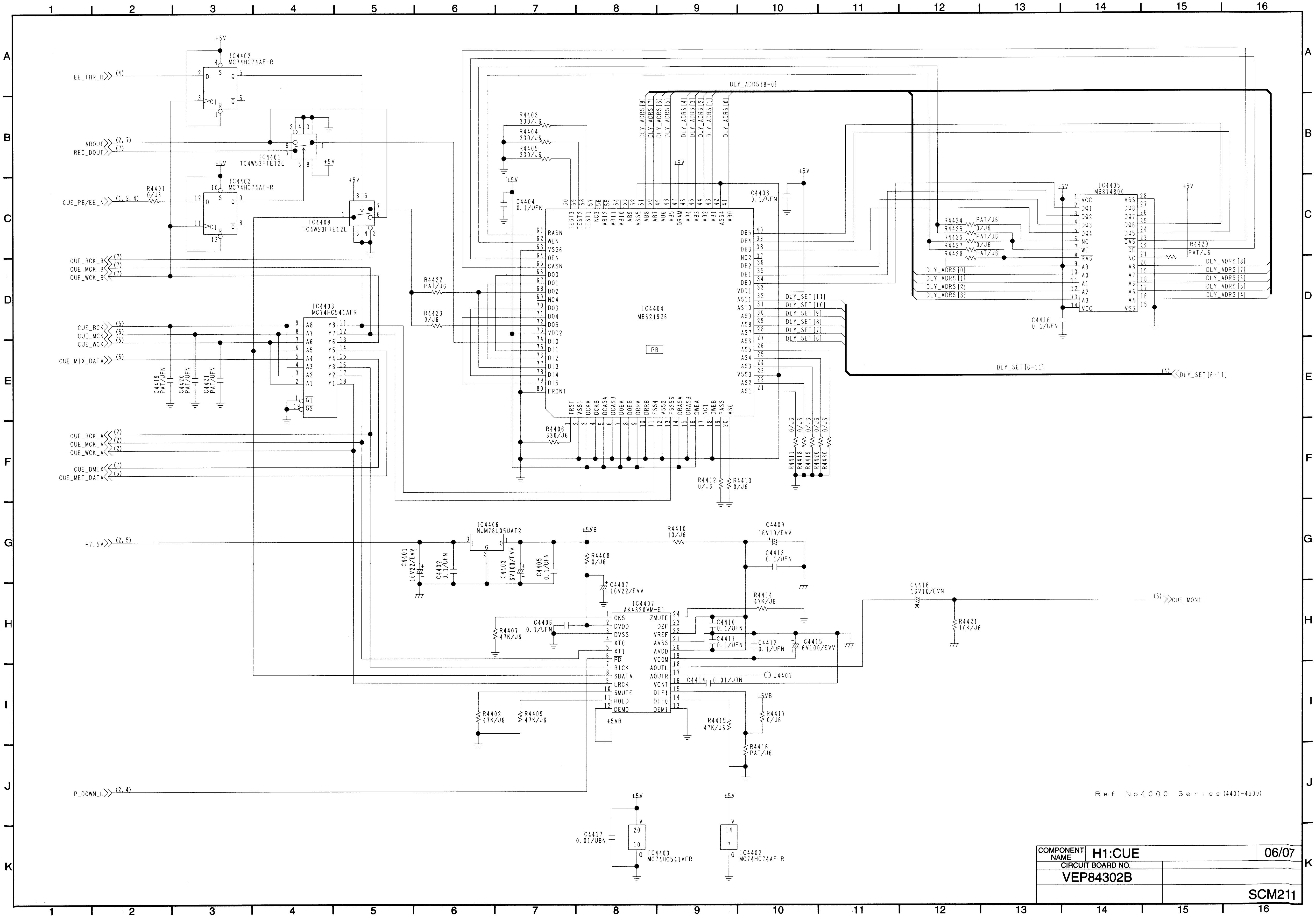

P4001
VJP3454B096
GNDA (2, 5) 1A AGND
+12V (1, 3, 5) 2A +12V
-12V (1, 3, 5) 3A -12V
+7.5V (2, 5, 6) 4A +7.5V
-7.5V (2, 5) 5A -7.5V
CUE_IN_C (2) 6A
7A
CUE_OUT_C (3) 8A CUE_OUT_C
9A AGND
10A
11A
12A
13A
14A
15A
16A
17A
18A
19A
CUE_BCK (6) 20A CUE_BCK
CUE_MIX_DATA (6) 21A
22A
AV_ADRS9 (4) 23A AV_ADRS9
24A
25A
AV_ADRS0 (4) 26A AV_ADRS0
AV_RST_L (4) 27A AV_RST_L
AV_DATA5 (4) 28A AV_DATA5
AV_DATA2 (4) 29A AV_DATA2
+5V (5) 30A +5V
-5V (5) 31A -5V
GNDD (5) 32A DGND
P4001
VJP3454B096
GNDA (2, 5) 1B AGND
+12V (1, 3, 5) 2B +12V
-12V (1, 3, 5) 3B -12V
+7.5V (2, 5, 6) 4B +7.5V
-7.5V (2, 5) 5B -7.5V
GNDA (2, 5) 6B
7B
CUE_OUT_G (3) 8B CUE_OUT_G
9B AGND
10B
11B
12B
13B
14B
15B
16B
17B
18B
25H_50L (1) 19B 25H_50L
CUE_MCK (6) 20B CUE_MCK
CUE_WCK (6) 21B CUE_WCK
AV_CS_AUDIO_L (4) 22B AV_CS_AUDIO_L
AV_ADRS8 (4) 23B AV_ADRS8
24B
25B
AV_IORD_L (4) 26B AV_IORD_L
AV_DATA7 (4) 27B AV_DATA7
AV_DATA4 (4) 28B AV_DATA4
AV_DATA1 (4) 29B AV_DATA1
+5V (5) 30B +5V
-5V (5) 31B -5V
GNDD (5) 32B DGND
P4001
VJP3454B096
GNDA (2, 5) 1C AGND
+12V (1, 3, 5) 2C +12V
-12V (1, 3, 5) 3C -12V
+7.5V (2, 5, 6) 4C +7.5V
-7.5V (2, 5) 5C -7.5V
CUE_IN_H (2) 6C
7C
CUE_OUT_H (3) 8C CUE_OUT_H
9C AGND
10C
11C
12C
13C
14C
15C
16C
17C
SYL_FG+ (1) 18C SYL_FG+
19C
CUE_MET_DATA (6) 20C CUE_MET_DATA
21C
AV_ADRS10 (4) 22C AV_ADRS10
AV_ADRS7 (4) 23C AV_ADRS7
24C
AV_ADRS1 (4) 25C AV_ADRS1
AV_IOWR_L (4) 26C AV_IOWR_L
AV_DATA6 (4) 27C AV_DATA6
AV_DATA3 (4) 28C AV_DATA3
AV_DATA0 (4) 29C AV_DATA0
+5V (5) 30C +5V
-5V (5) 31C -5V
GNDD (5) 32C DGND
R4601
PAT/J6

Ref No4000 Series

COMPONENT NAME H1:CUE 05/07
CIRCUIT BOARD NO.
VEP84302B
SCM210

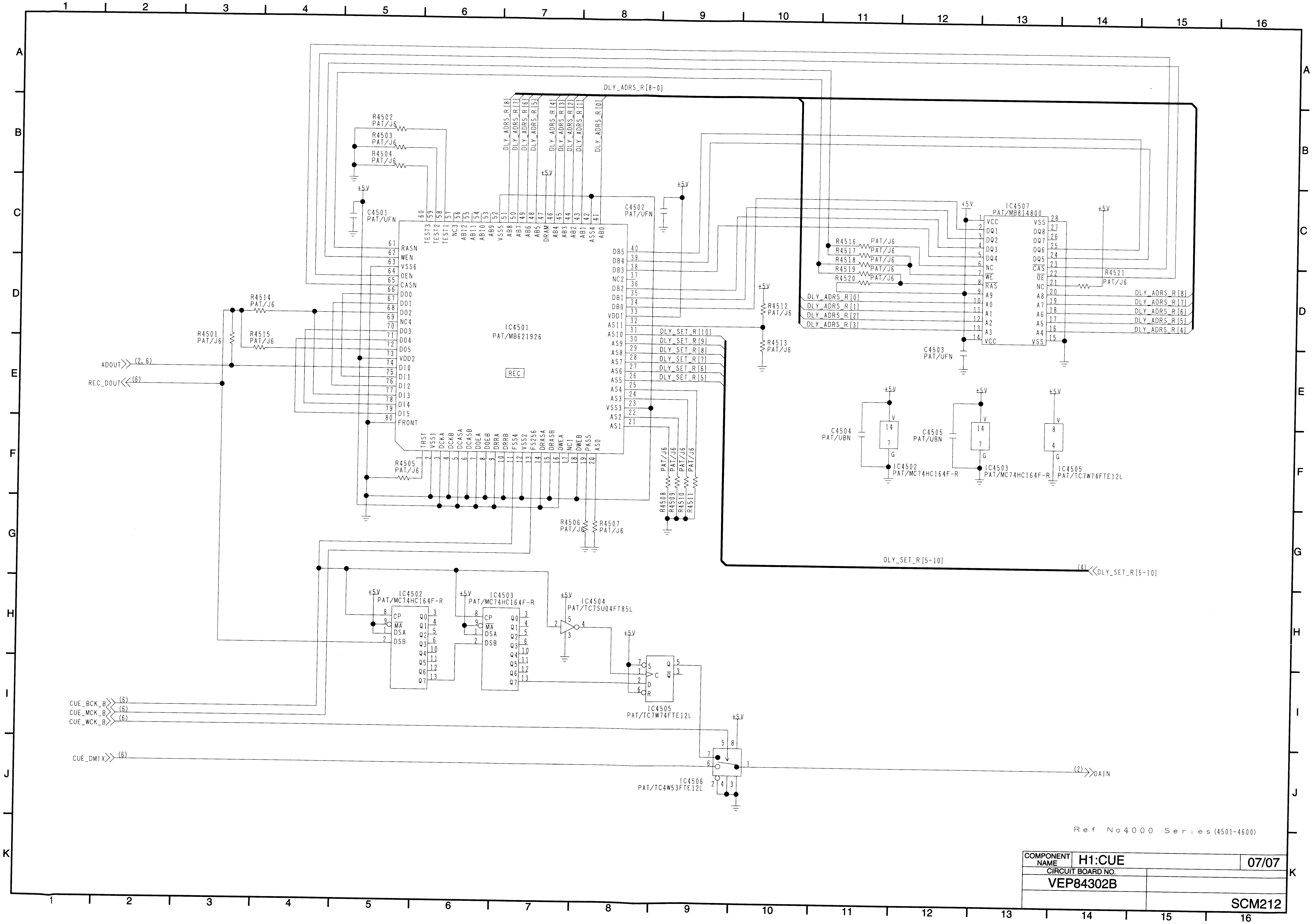
KR4H36(5/7)

KR4H36(6/7)


EE_THR_H
ADOUT
REC_DOUT
CUE_PB/EE_N
CUE_BCK_B
CUE_MCK_B
CUE_WCK_B
CUE_BCK
CUE_MCK
CUE_WCK
CUE_MIX_DATA
CUE_BCK_A
CUE_MCK_A
CUE_WCK_A
CUE_DMIX
CUE_MET_DATA
+7.5V
P_DOWN_L
IC4402 MC74HC74AF-R
IC4401 TC4W53FTE12L
IC4408 TC4W53FTE12L
IC4403 MC74HC541AFR
IC4404 MB621926
IC4405 MB814800
IC4406 NJM78L05UAT2
IC4407 AK4320VM-E1
DLY_ADRS[8-0]
DLY_SET[6-11]
CUE_MONI
J4401
+5V
+5VB
R4401 0/J6
R4403 330/J6
R4404 330/J6
R4405 330/J6
R4406 330/J6
R4407 47K/J6
R4408 0/J6
R4409 47K/J6
R4410 10/J6
R4412 0/J6
R4413 0/J6
R4414 47K/J6
R4415 47K/J6
R4416 PAT/J6
R4417 0/J6
R4421 10K/J6
R4422 PAT/J6
R4423 0/J6
R4429 PAT/J6
C4401 16V22/EVV
C4402 0.1/UFN
C4403 6V100/EVV
C4404 0.1/UFN
C4405 0.1/UFN
C4406 0.1/UFN
C4407 16V22/EVV
C4408 0.1/UFN
C4409 16V10/EVV
C4410 0.1/UFN
C4411 0.1/UFN
C4412 0.1/UFN
C4413 0.1/UFN
C4414 0.01/UBN
C4415 6V100/EVV
C4416 0.1/UFN
C4417 0.01/UBN
C4418 16V10/EVN
C4419 PAT/UFN
C4420 PAT/UFN
C4421 PAT/UFN
PB

Ref No4000 Series(4401-4500)

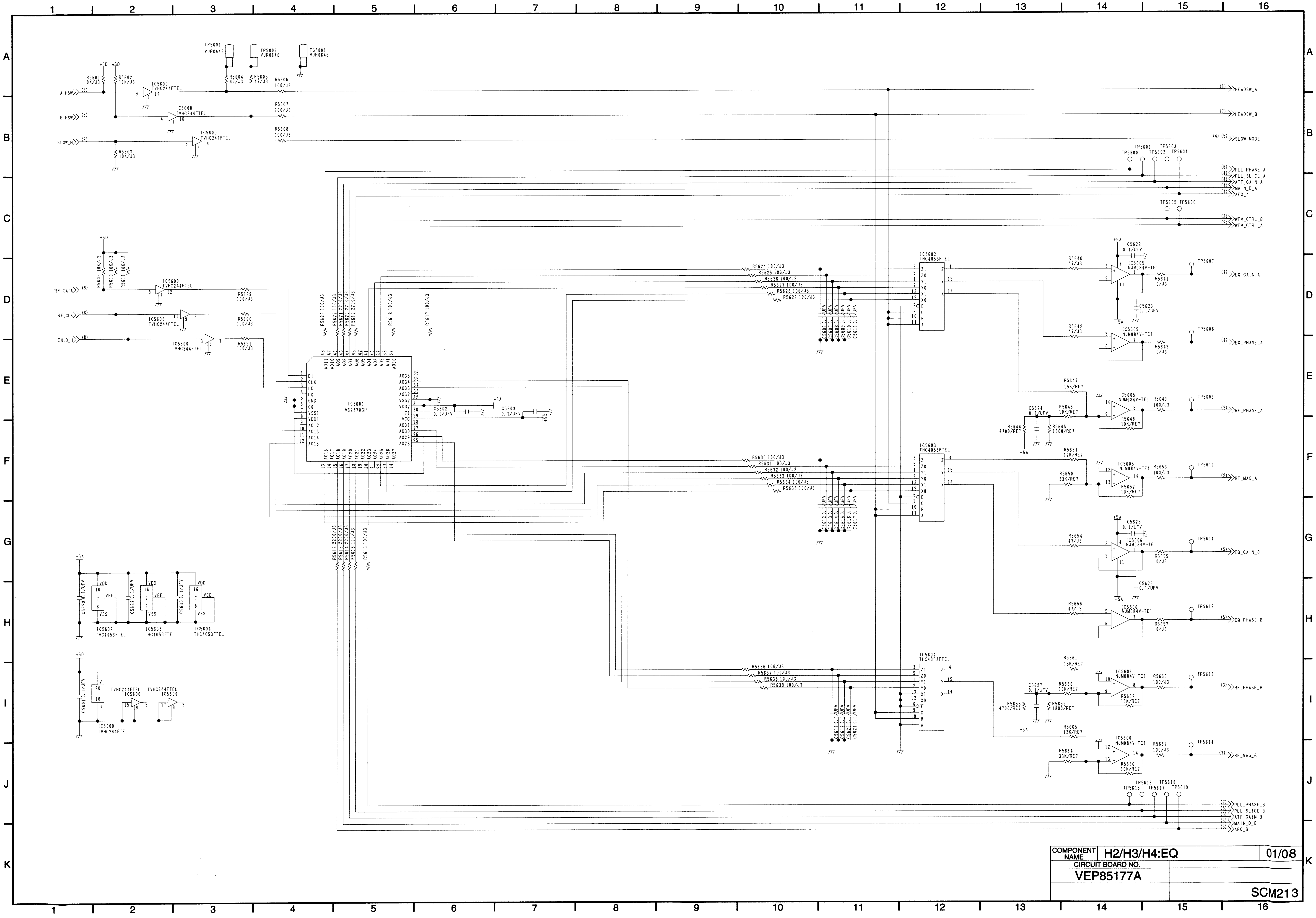
COMPONENT NAME	H1:CUE	06/07
CIRCUIT BOARD NO.		
VEP84302B		
		SCM211


IC4501
PAT/MB621926
REC
IC4507
PAT/MB814800
IC4502
PAT/MC74HC164F-R
IC4503
PAT/MC74HC164F-R
IC4504
PAT/TC7SU04FT85L
IC4505
PAT/TC7W74FTE12L
IC4506
PAT/TC4W53FTE12L
C4501
PAT/UFN
C4502
PAT/UFN
C4503
PAT/UFN
C4504
PAT/UBN
C4505
PAT/UBN
R4501
PAT/J6
R4502
PAT/J6
R4503
PAT/J6
R4504
PAT/J6
R4505
PAT/J6
R4506
PAT/J6
R4507
PAT/J6
R4508
R4509
R4510
R4511
R4512
PAT/J6
R4513
PAT/J6
R4514
PAT/J6
R4515
PAT/J6
R4516
R4517
R4518
R4519
R4520
R4521
PAT/J6
DLY_ADRS_R[8-0]
DLY_SET_R[5-10]
(4)DLY_SET_R[5-10]
ADOUT (2, 6)
REC_DOUT (6)
CUE_BCK_B (6)
CUE_MCK_B (6)
CUE_WCK_B (6)
CUE_DMIX (6)
(2) DAIN
+5V

Ref No4000 Series(4501-4600)

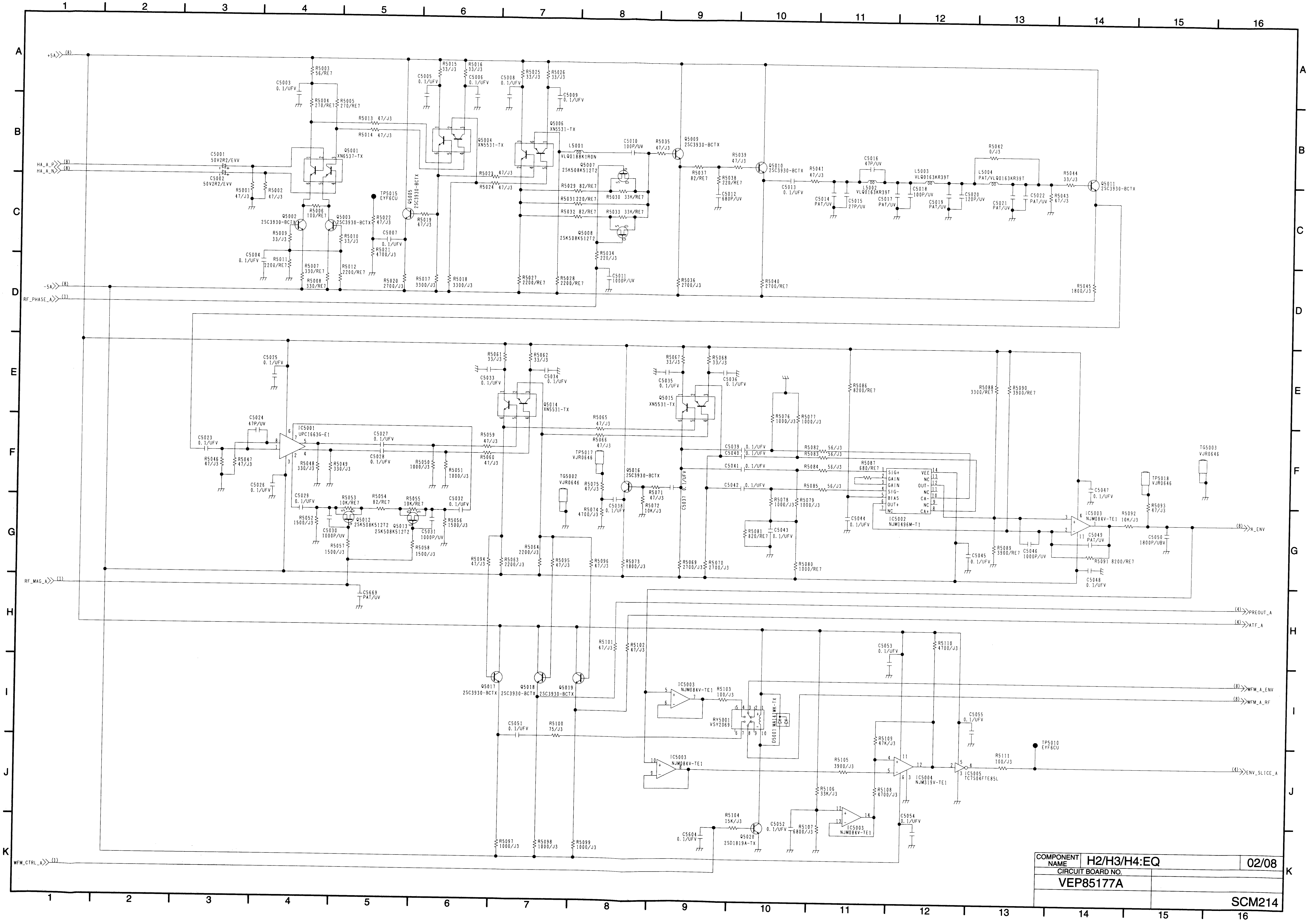
COMPONENT NAME	H1:CUE	07/07
CIRCUIT BOARD NO.		
VEP84302B		
		SCM212

KR4H36(7/7)

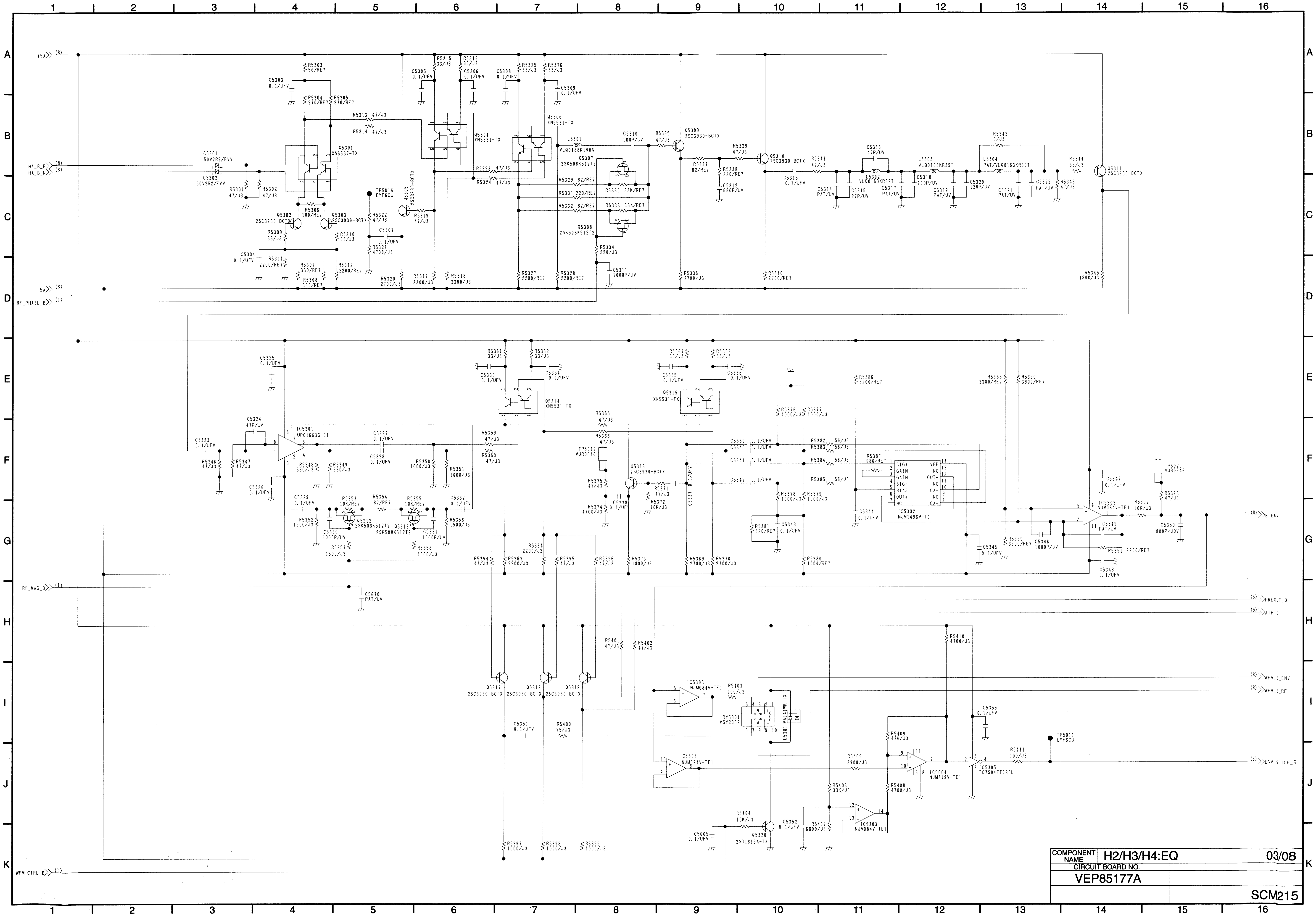

TP5001 VJR0646
TP5002 VJR0646
TG5001 VJR0646
+5D
R5601 10K/J3
R5602 10K/J3
R5603 10K/J3
R5604 47/J3
R5605 47/J3
R5606 100/J3
R5607 100/J3
R5608 100/J3
A_HSW (8)
B_HSW (8)
SLOW_H (8)
IC5600 TVHC244FTEL
RF_DATA (8)
RF_CLK (8)
EQLD_H (8)
R5609 10K/J3
R5610 10K/J3
R5611 10K/J3
R5689 100/J3
R5690 100/J3
R5691 100/J3
IC5601 M62370GP
D1
CLK
LD
D0
GND
C0
VSS1
VDD1
AO12
AO13
AO14
AO15
AO11
AO10
AO9
AO8
AO7
AO6
AO5
AO4
AO3
AO2
AO1
AO36
AO35
AO34
AO33
AO32
VSS2
VDD2
C1
VCC
AO31
AO30
AO29
AO28
AO16
AO17
AO18
AO19
AO20
AO21
AO22
AO23
AO24
AO25
AO26
AO27
R5623 100/J3
R5622 100/J3
R5621 2200/J3
R5620 2200/J3
R5619 2200/J3
R5618 100/J3
R5617 100/J3
R5612 2200/J3
R5613 2200/J3
R5614 2200/J3
R5615 100/J3
R5616 100/J3
C5602 0.1/UFV
C5603 0.1/UFV
+3A
+5D
(6) HEADSW_A
(7) HEADSW_B
(4) (5) SLOW_MODE
TP5600
TP5601
TP5602
TP5603
TP5604
(6) PLL_PHASE_A
(4) PLL_SLICE_A
(4) ATF_GAIN_A
(4) MAIN_D_A
(4) AEQ_A
TP5605
TP5606
(3) WFM_CTRL_B
(2) WFM_CTRL_A
R5624 100/J3
R5625 100/J3
R5626 100/J3
R5627 100/J3
R5628 100/J3
R5629 100/J3
C5606 0.1/UFV
C5607 0.1/UFV
C5608 0.1/UFV
C5609 0.1/UFV
C5610 0.1/UFV
C5611 0.1/UFV
IC5602 THC4053FTEL
Z1
Z0
Y1
Y0
X1
X0
E
C
B
A
Z
Y
X
+5A
-5A
C5622 0.1/UFV
C5623 0.1/UFV
R5640 47/J3
R5641 0/J3
R5642 47/J3
R5643 0/J3
IC5605 NJM084V-TE1
TP5607
TP5608
(4) EQ_GAIN_A
(4) EQ_PHASE_A
R5647 15K/RE7
R5646 10K/RE7
R5644 4700/RE7
R5645 1800/RE7
C5624 0.1/UFV
R5648 10K/RE7
R5649 100/J3
TP5609
(2) RF_PHASE_A
R5630 100/J3
R5631 100/J3
R5632 100/J3
R5633 100/J3
R5634 100/J3
R5635 100/J3
C5612 0.1/UFV
C5613 0.1/UFV
C5614 0.1/UFV
C5615 0.1/UFV
C5616 0.1/UFV
C5617 0.1/UFV
IC5603 THC4053FTEL
R5651 12K/RE7
R5650 33K/RE7
R5652 10K/RE7
R5653 100/J3
TP5610
(2) RF_MAG_A
C5625 0.1/UFV
C5626 0.1/UFV
IC5606 NJM084V-TE1
R5654 47/J3
R5655 0/J3
R5656 47/J3
R5657 0/J3
TP5611
TP5612
(5) EQ_GAIN_B
(5) EQ_PHASE_B
IC5604 THC4053FTEL
R5636 100/J3
R5637 100/J3
R5638 100/J3
R5639 100/J3
C5618 0.1/UFV
C5619 0.1/UFV
C5620 0.1/UFV
C5621 0.1/UFV
R5661 15K/RE7
R5660 10K/RE7
R5658 4700/RE7
R5659 1800/RE7
C5627 0.1/UFV
R5662 10K/RE7
R5663 100/J3
TP5613
(3) RF_PHASE_B
R5665 12K/RE7
R5664 33K/RE7
R5666 10K/RE7
R5667 100/J3
TP5614
(3) RF_MAG_B
TP5615
TP5616
TP5617
TP5618
TP5619
(7) PLL_PHASE_B
(5) PLL_SLICE_B
(5) ATF_GAIN_B
(5) MAIN_D_B
(5) AEQ_B
C5628 0.1/UFV
C5629 0.1/UFV
C5630 0.1/UFV
VDD
VEE
VSS
16
7
8
IC5602 THC4053FTEL
IC5603 THC4053FTEL
IC5604 THC4053FTEL
C5601 0.1/UFV
V
G
20
10
IC5600 TVHC244FTEL
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

COMPONENT NAME	H2/H3/H4:EQ	01/08
CIRCUIT BOARD NO.		
VEP85177A		SCM213

KR5532(1/8)


+5A (8)
HA_A_P (8)
HA_A_N (8)
-5A (8)
RF_PHASE_A (1)
RF_MAG_A (1)
WFM_CTRL_A (1)
(8) A_ENV
(4) PREOUT_A
(4) ATF_A
(8) WFM_A_ENV
(8) WFM_A_RF
(4) ENV_SLICE_A
C5001 50V2R2/EVV
C5002 50V2R2/EVV
R5001 47/J3
R5002 47/J3
C5003 0.1/UFV
R5003 56/RE7
R5004 270/RE7
R5005 270/RE7
Q5001 XN5537-TX
Q5002 2SC3930-BCTX
Q5003 2SC3930-BCTX
R5006 100/RE7
R5009 33/J3
R5010 33/J3
C5004 0.1/UFV
R5011 2200/RE7
R5007 330/RE7
R5008 330/RE7
R5012 2200/RE7
R5013 47/J3
R5014 47/J3
TP5015 EYF6CU
R5022 47/J3
Q5005 2SC3930-BCTX
R5019 47/J3
C5007 0.1/UFV
R5021 4700/J3
R5020 2700/J3
C5005 0.1/UFV
R5015 33/J3
R5016 33/J3
C5006 0.1/UFV
Q5004 XN5531-TX
R5017 3300/J3
R5018 3300/J3
R5023 47/J3
R5024 47/J3
C5008 0.1/UFV
R5025 33/J3
R5026 33/J3
C5009 0.1/UFV
Q5006 XN5531-TX
L5001 VLQ0188K1R0N
Q5007 2SK508K512T2
R5029 82/RE7
R5030 33K/RE7
R5031 220/RE7
R5032 82/RE7
R5033 33K/RE7
Q5008 2SK508K512T2
R5034 220/J3
C5011 1000P/UV
R5027 2200/RE7
R5028 2200/RE7
C5010 100P/UV
R5035 47/J3
Q5009 2SC3930-BCTX
R5037 82/RE7
R5038 220/RE7
C5012 680P/UV
R5039 47/J3
R5036 2700/J3
Q5010 2SC3930-BCTX
C5013 0.1/UFV
R5040 2700/RE7
R5041 47/J3
C5014 PAT/UV
C5015 27P/UV
C5016 47P/UV
L5002 VLQ0163KR39T
C5017 PAT/UV
C5018 100P/UV
L5003 VLQ0163KR39T
C5019 PAT/UV
C5020 120P/UV
R5042 0/J3
L5004 PAT/VLQ0163KR39T
C5021 PAT/UV
C5022 PAT/UV
R5043 47/J3
R5044 33/J3
Q5011 2SC3930-BCTX
R5045 1800/J3
C5025 0.1/UFV
C5024 47P/UV
C5023 0.1/UFV
R5046 47/J3
R5047 47/J3
C5026 0.1/UFV
IC5001 UPC1663G-E1
C5027 0.1/UFV
C5028 0.1/UFV
R5048 330/J3
R5049 330/J3
R5050 1000/J3
R5051 1000/J3
C5029 0.1/UFV
R5053 10K/RE7
R5054 82/RE7
R5055 10K/RE7
C5032 0.1/UFV
R5052 1500/J3
C5030 1000P/UV
Q5012 2SK508K512T2
Q5013 2SK508K512T2
C5031 1000P/UV
R5056 1500/J3
R5057 1500/J3
R5058 1500/J3
C5669 PAT/UV
R5061 33/J3
R5062 33/J3
C5033 0.1/UFV
C5034 0.1/UFV
Q5014 XN5531-TX
R5059 47/J3
R5060 47/J3
R5065 47/J3
R5066 47/J3
TP5017 VJR0646
TG5002 VJR0646
Q5016 2SC3930-BCTX
R5075 47/J3
R5074 4700/J3
C5038 0.1/UFV
R5071 47/J3
R5072 10K/J3
R5067 33/J3
R5068 33/J3
C5035 0.1/UFV
C5036 0.1/UFV
Q5015 XN5531-TX
C5037 0.1/UFV
R5094 47/J3
R5063 2200/J3
R5064 2200/J3
R5095 47/J3
R5096 47/J3
R5073 1800/J3
R5069 2700/J3
R5070 2700/J3
R5076 1000/J3
R5077 1000/J3
C5039 0.1/UFV
C5040 0.1/UFV
C5041 0.1/UFV
C5042 0.1/UFV
R5082 56/J3
R5083 56/J3
R5084 56/J3
R5085 56/J3
R5087 680/RE7
R5078 1000/J3
R5079 1000/J3
R5081 820/RE7
C5043 0.1/UFV
R5080 1000/RE7
R5086 8200/RE7
C5044 0.1/UFV
SIG+
GAIN
GAIN
SIG-
BIAS
OUT+
NC
VEE
NC
OUT-
NC
CA-
NC
CA+
IC5002 NJM1496M-T1
R5088 3300/RE7
R5090 3900/RE7
R5089 3900/RE7
C5045 0.1/UFV
C5046 1000P/UV
C5047 0.1/UFV
IC5003 NJM084V-TE1
C5049 PAT/UV
R5091 8200/RE7
C5048 0.1/UFV
R5092 10K/J3
TP5018 VJR0646
R5093 47/J3
C5050 1800P/UBV
TG5003 VJR0646
Q5017 2SC3930-BCTX
Q5018 2SC3930-BCTX
Q5019 2SC3930-BCTX
R5101 47/J3
R5102 47/J3
C5051 0.1/UFV
R5100 75/J3
R5097 1000/J3
R5098 1000/J3
R5099 1000/J3
IC5003 NJM084V-TE1
R5103 100/J3
RY5001 VSY2069
D5001 MA143WK-TX
IC5003 NJM084V-TE1
R5104 15K/J3
Q5020 2SD1819A-TX
C5604 0.1/UFV
C5052 0.1/UFV
R5107 6800/J3
R5106 33K/J3
IC5003 NJM084V-TE1
C5053 0.1/UFV
R5110 4700/J3
R5109 47K/J3
R5105 3900/J3
R5108 4700/J3
IC5004 NJM319V-TE1
C5054 0.1/UFV
C5055 0.1/UFV
IC5005 TC7S04FTE85L
R5111 100/J3
TP5010 EYF6CU
KR5532(2/8)

COMPONENT NAME	H2/H3/H4:EQ	02/08
CIRCUIT BOARD NO.		
VEP85177A		
		SCM214


+5A
-5A
HA_B_P
HA_B_N
RF_PHASE_B
RF_MAG_B
WFM_CTRL_B
B_ENV
PREOUT_B
ATF_B
WFM_B_ENV
WFM_B_RF
ENV_SLICE_B
Q5301 XN6537-TX
Q5302 2SC3930-BCTX
Q5303 2SC3930-BCTX
Q5304 XN5531-TX
Q5305 2SC3930-BCTX
Q5306 XN5531-TX
Q5307 2SK508K512T2
Q5308 2SK508K512T2
Q5309 2SC3930-BCTX
Q5310 2SC3930-BCTX
Q5311 2SC3930-BCTX
Q5312 2SK508K512T2
Q5313 2SK508K512T2
Q5314 XN5531-TX
Q5315 XN5531-TX
Q5316 2SC3930-BCTX
Q5317 2SC3930-BCTX
Q5318 2SC3930-BCTX
Q5319 2SC3930-BCTX
Q5320 2SD1819A-TX
IC5301 UPC1663G-E1
IC5302 NJM1496M-T1
IC5303 NJM084V-TE1
IC5004 NJM319V-TE1
IC5305 TC7S04FTE85L
RY5301 VSY2069
D5301 MA141WK-TX
TP5016 EYF6CU
TP5019 VJR0646
TP5020 VJR0646
TP5011 EYF6CU
L5301 VLQ0188K1R0N
L5302 VLQ0163KR39T
L5303 VLQ0163KR39T
L5304 PAT/VLQ0163KR39T

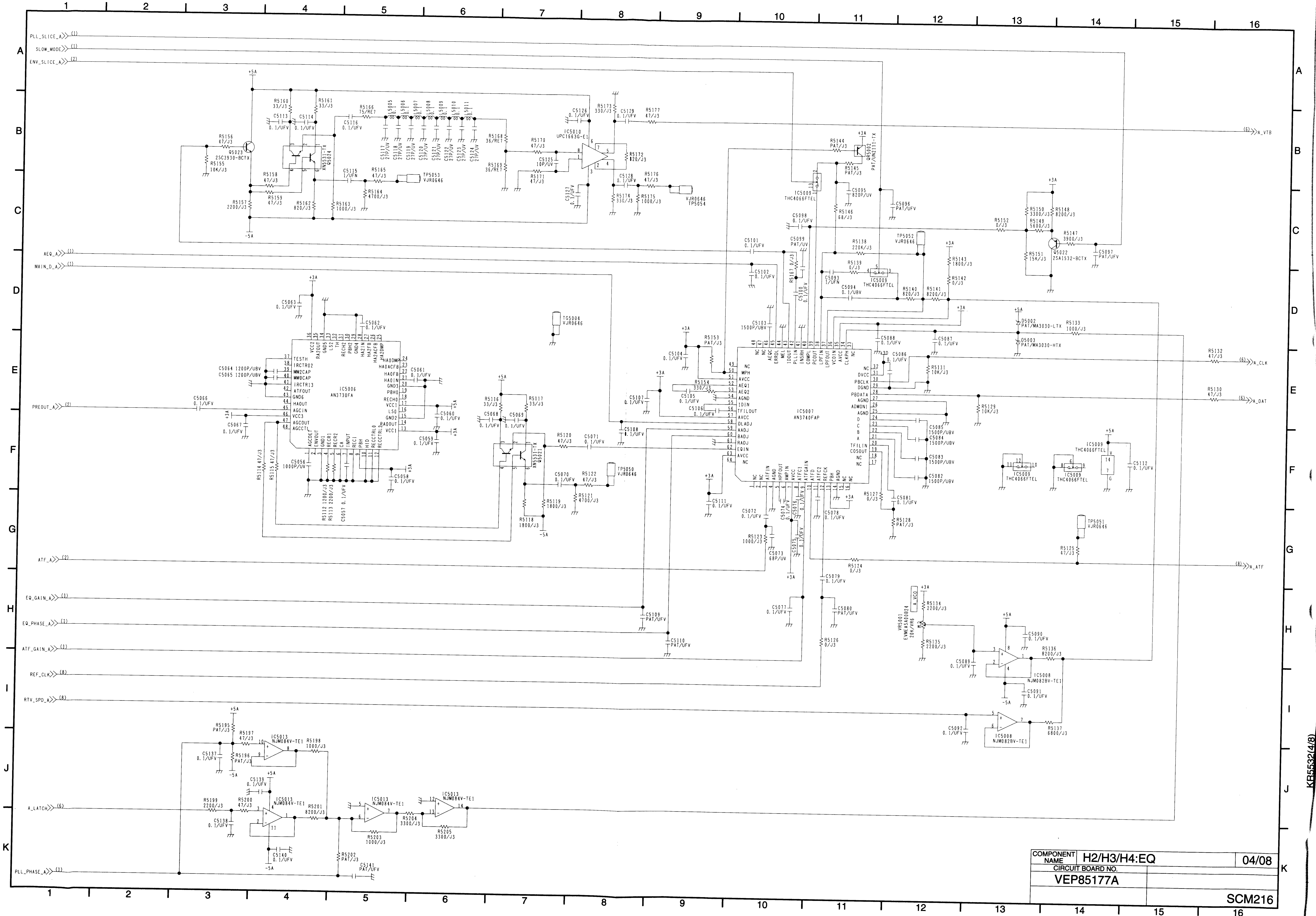
COMPONENT NAME H2/H3/H4:EQ 03/08

CIRCUIT BOARD NO.

VEP85177A

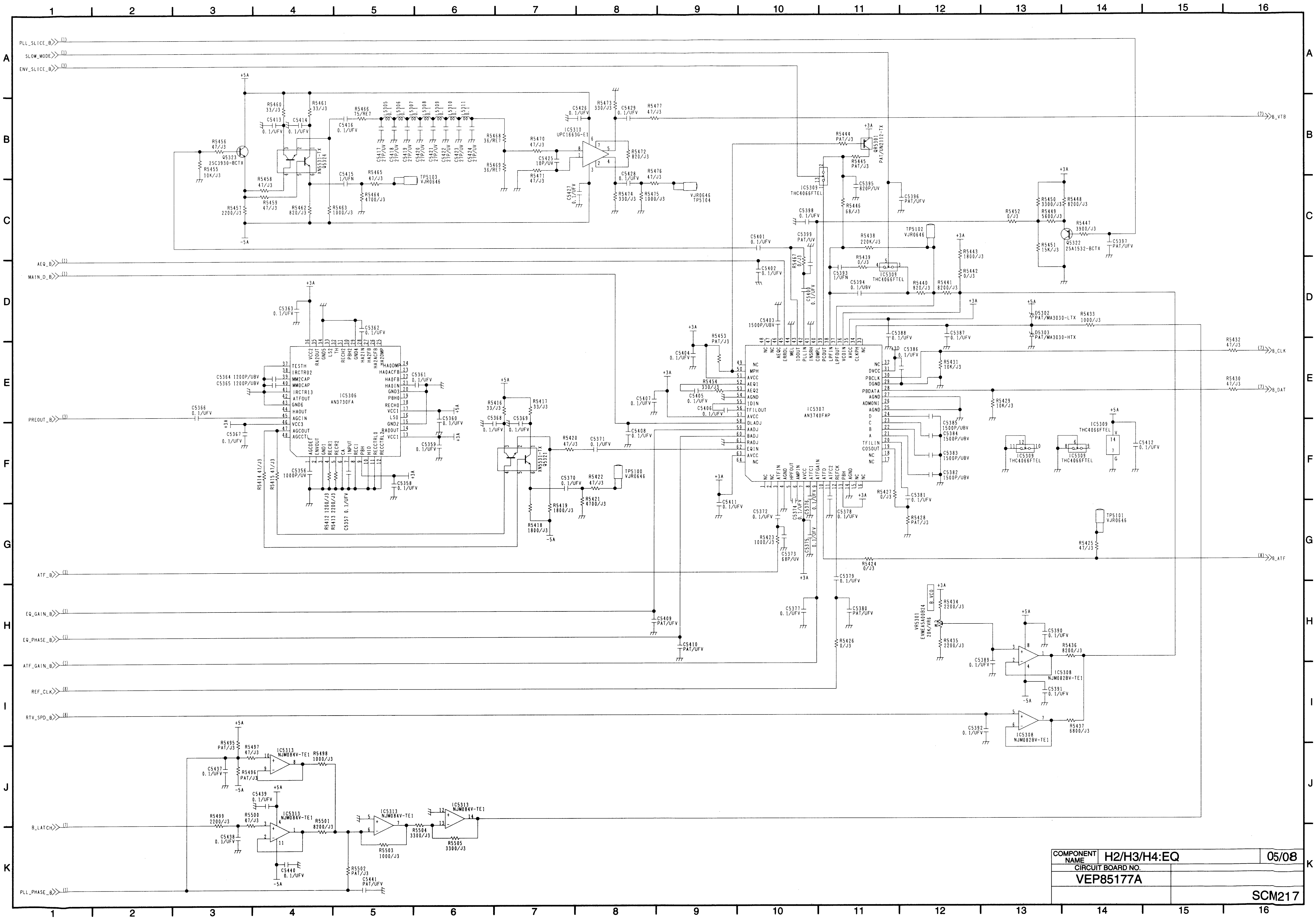
SCM215

KR5532(3/8)


PLL_SLICE_A
SLOW_MODE
ENV_SLICE_A
AEQ_A
MAIN_D_A
PREOUT_A
ATF_A
EQ_GAIN_A
EQ_PHASE_A
ATF_GAIN_A
REF_CLK
RTV_SPD_A
A_LATCH
PLL_PHASE_A
A_VTB
A_CLK
A_DAT
A_ATF
IC5006 AN3730FA
IC5007 AN3740FAP
IC5010 UPC1663G-E1
IC5009 THC4066FTEL
IC5008 NJM082BV-TE1
IC5013 NJM084V-TE1
Q5023 2SC3930-BCTX
Q5024 XN6531-TX
Q5021 XN6531-TX
Q5022 2SA1532-BCTX
Q5002 PAT/UN2111-TX
D5002 PAT/MA3030-LTX
D5003 PAT/MA3030-HTX
VR5001 EVMEASA00B24 20K/VR6
TP5050 VJR0646
TP5051 VJR0646
TP5052 VJR0646
TP5053 VJR0646
TP5054 VJR0646
TG5004 VJR0646
+5A
-5A
+3A
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

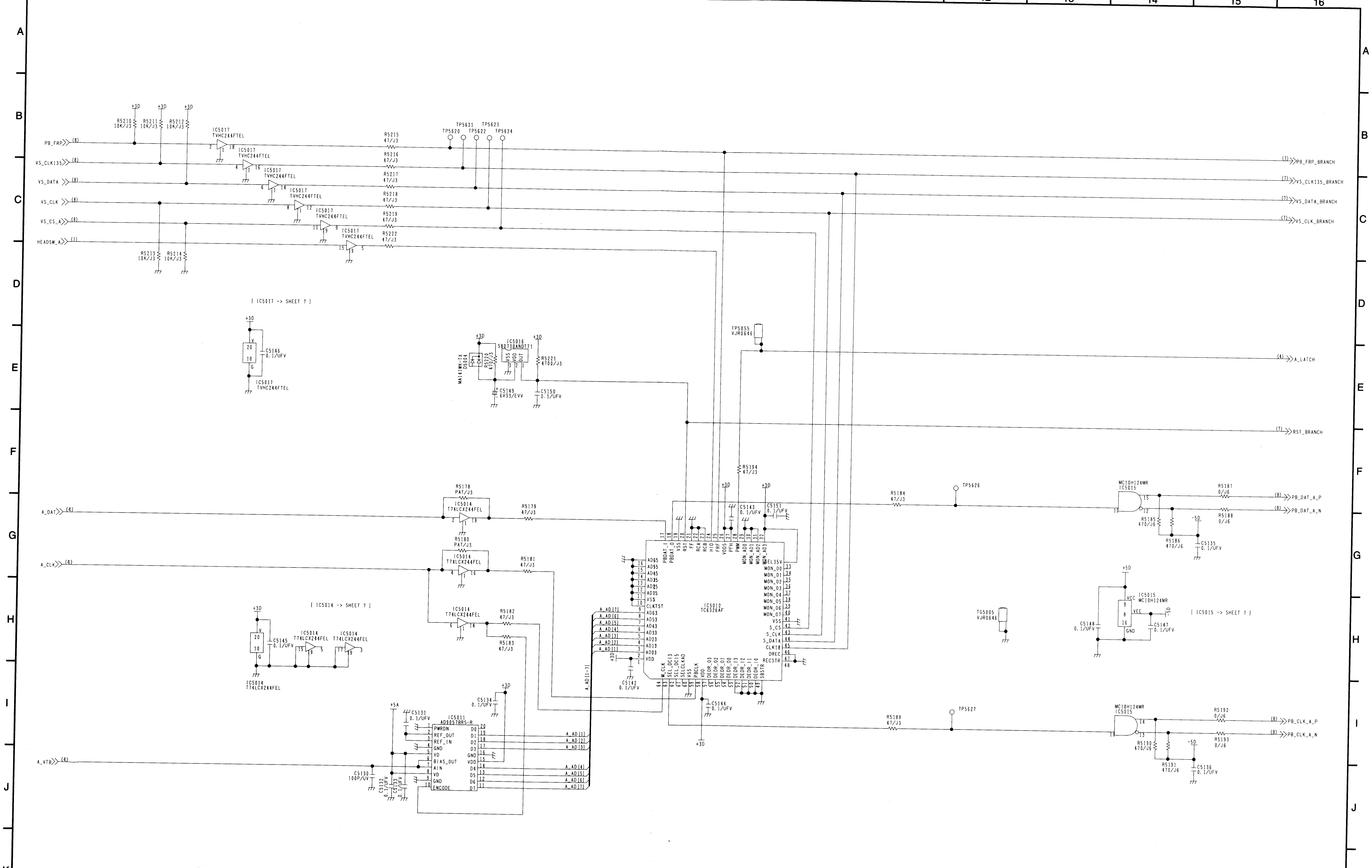
COMPONENT NAME	H2/H3/H4:EQ	04/08
CIRCUIT BOARD NO.		
VEP85177A		
		SCM216

KR5532(4/8)


PLL_SLICE_B
SLOW_MODE
ENV_SLICE_B
AEQ_B
MAIN_D_B
PREOUT_B
ATF_B
EQ_GAIN_B
EQ_PHASE_B
ATF_GAIN_B
REF_CLK
RTV_SPD_B
B_LATCH
PLL_PHASE_B
B_VTB
B_CLK
B_DAT
B_ATF
IC5306 AN3730FA
IC5307 AN3740FAP
IC5310 UPC1663G-E1
IC5309 THC4066FTEL
IC5308 NJM082BV-TE1
IC5313 NJM084V-TE1
Q5323 2SC3930-BCTX
Q5324 XN5531-TX
Q5321 XN5531-TX
Q5322 2SA1532-BCTX
QR5301 PAT/UN2112-TX
D5302 PAT/MA3030-LTX
D5303 PAT/MA3030-HTX
VR5301 EVMEASA00B24 20K/VR6
TP5100 VJR0646
TP5101 VJR0646
TP5102 VJR0646
TP5103 VJR0646
TP5104 VJR0646
B_VCO
+5A
-5A
+3A

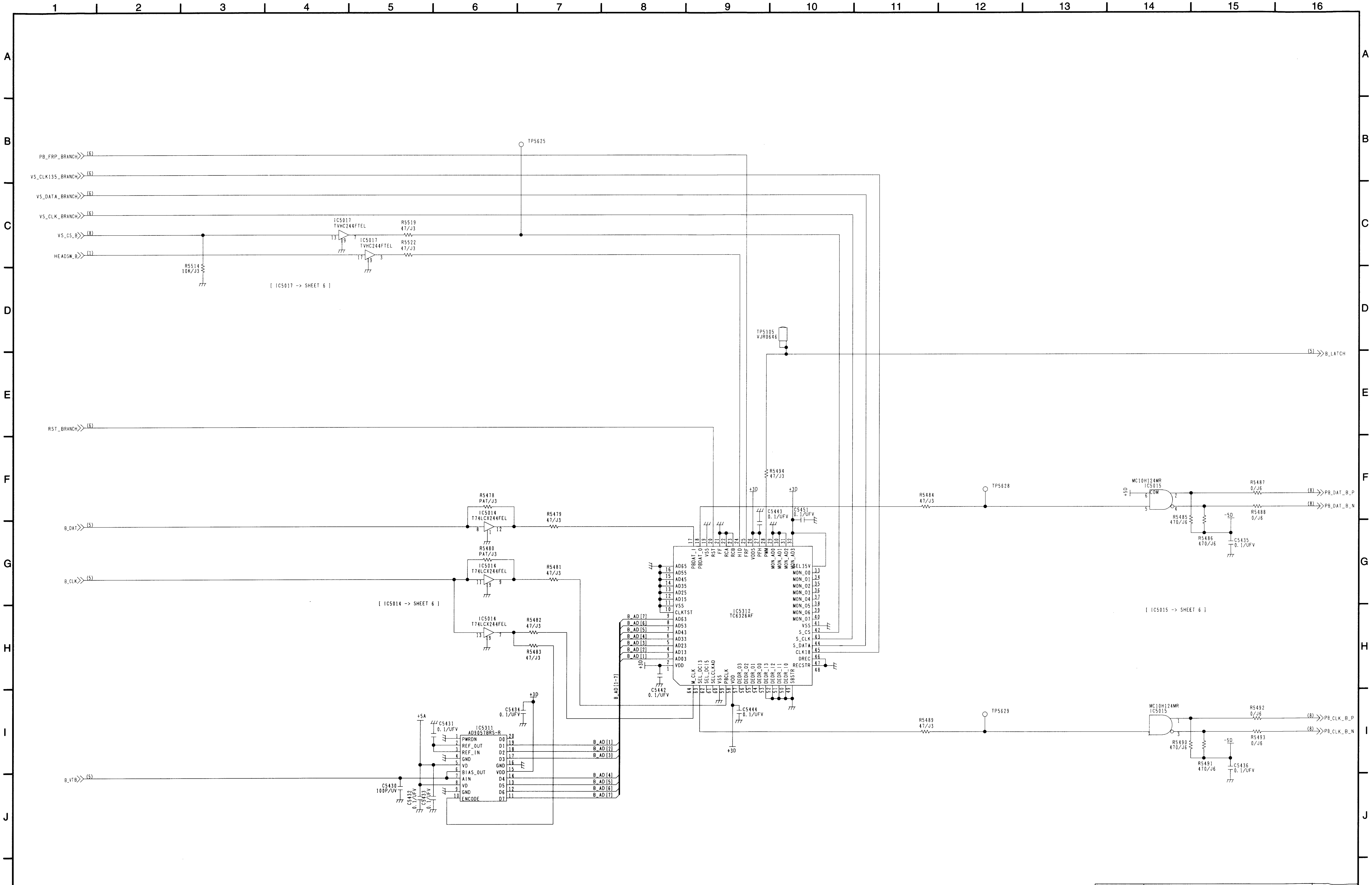
COMPONENT NAME	H2/H3/H4:EQ	05/08
CIRCUIT BOARD NO.		
VEP85177A		
		SCM217

KR5532(5/8)


PB_FRP
VS_CLK135
VS_DATA
VS_CLK
VS_CS_A
HEADSW_A
R5210 10K/J3
R5211 10K/J3
R5212 10K/J3
R5213 10K/J3
R5214 10K/J3
IC5017 TVHC244FTEL
R5215 47/J3
R5216 47/J3
R5217 47/J3
R5218 47/J3
R5219 47/J3
R5222 47/J3
TP5620
TP5621
TP5622
TP5623
TP5624
PB_FRP_BRANCH
VS_CLK135_BRANCH
VS_DATA_BRANCH
VS_CLK_BRANCH
[IC5017 -> SHEET 7]
C5146 0.1/UFV
TP5055 VJR0646
A_LATCH
D5004 MA141WK-TX
R5220 470/J3
IC5016 S80730ANDTT1
R5221 4700/J3
C5149 6V33/EVV
C5150 0.1/UFV
RST_BRANCH
R5194 47/J3
A_DAT
A_CLK
R5178 PAT/J3
IC5014 T74LCX244FEL
R5179 47/J3
R5180 PAT/J3
R5181 47/J3
R5182 47/J3
R5183 47/J3
[IC5014 -> SHEET 7]
C5145 0.1/UFV
IC5012 TC6326AF
C5143 0.1/UFV
C5151 0.1/UFV
C5142 0.1/UFV
C5144 0.1/UFV
A_AD[1-7]
R5184 47/J3
TP5626
MC10H124MR IC5015
R5187 0/J6
R5188 0/J6
R5185 470/J6
R5186 470/J6
C5135 0.1/UFV
PB_DAT_A_P
PB_DAT_A_N
TG5005 VJR0646
C5148 0.1/UFV
C5147 0.1/UFV
[IC5015 -> SHEET 7]
R5189 47/J3
TP5627
R5192 0/J6
R5193 0/J6
R5190 470/J6
R5191 470/J6
C5136 0.1/UFV
PB_CLK_A_P
PB_CLK_A_N
A_VTB
C5130 100P/UV
C5131 0.1/UFV
C5132 0.1/UFV
C5133 0.1/UFV
C5134 0.1/UFV
IC5011 AD9057BRS-R
+3D
+5D
-5D
+5A

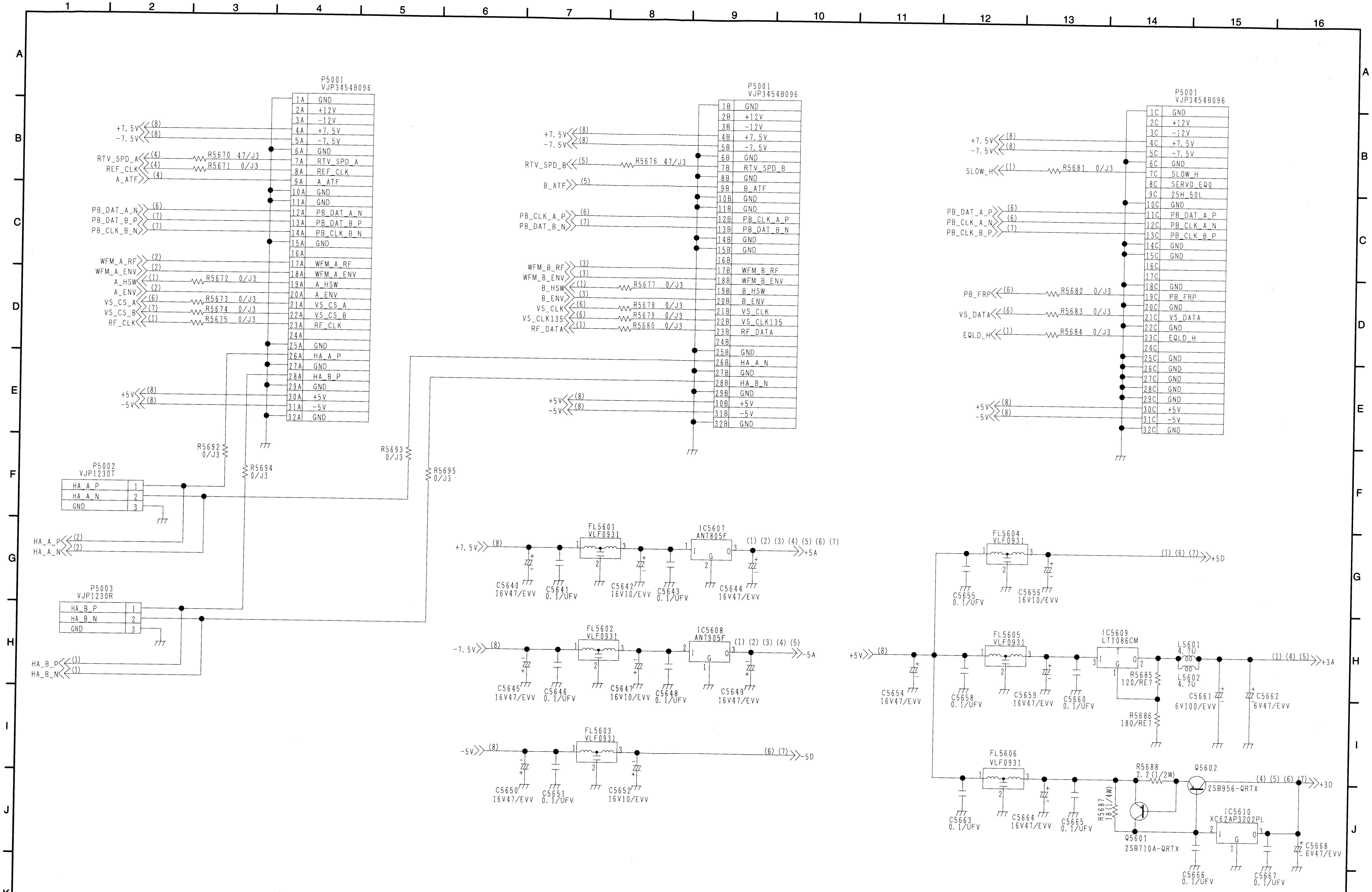
COMPONENT NAME	H2/H3/H4:EQ	06/08
CIRCUIT BOARD NO.		
VEP85177A		SCM218

KR5532(6/8)


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K
PB_FRP_BRANCH (6)
VS_CLK135_BRANCH (6)
VS_DATA_BRANCH (6)
VS_CLK_BRANCH (6)
VS_CS_B (8)
HEADSW_B (1)
TP5625
IC5017
TVHC244FTEL
R5519
47/J3
R5522
47/J3
R5514
10K/J3
[IC5017 -> SHEET 6]
TP5105
VJR0646
(5) B_LATCH
RST_BRANCH (6)
R5494
47/J3
+3D
C5443
0.1/UFV
C5451
0.1/UFV
B_DAT (5)
R5478
PAT/J3
IC5014
T74LCX244FEL
R5479
47/J3
R5480
PAT/J3
B_CLK (5)
R5481
47/J3
[IC5014 -> SHEET 6]
R5482
47/J3
R5483
47/J3
IC5312
TC6326AF
PBDAT_I
PBDAT_O
VSS
RST
FF
RCA
RCB
HID
FRF
VDDS
PFH
PWM
MON_AD0
MON_AD1
MON_AD2
MON_AD3
SEL35V
MON_O0
MON_O1
MON_O2
MON_O3
MON_O4
MON_O5
MON_O6
MON_O7
S_CS
S_CLK
S_DATA
CLK18
DREC
RECSTR
AD65
AD55
AD45
AD35
AD25
AD15
CLKTST
AD63
AD53
AD43
AD33
AD23
AD13
AD03
VDD
M_CLK
SEL_DC13
SEL_DC15
SELCLKAD
PBCLK
DEDR_03
DEDR_02
DEDR_01
DEDR_00
DEDR_13
DEDR_12
DEDR_11
DEDR_10
SBSTR
B_AD[1]
B_AD[2]
B_AD[3]
B_AD[4]
B_AD[5]
B_AD[6]
B_AD[7]
B_AD[1-7]
C5442
0.1/UFV
C5444
0.1/UFV
+3D
C5434
0.1/UFV
+5A
C5431
0.1/UFV
IC5311
AD9057BRS-R
PWRDN
REF_OUT
REF_IN
GND
VD
BIAS_OUT
AIN
ENCODE
D0
D1
D2
D3
VDD
D4
D5
D6
D7
B_VTB (5)
C5430
100P/UV
C5432
0.1/UFV
C5433
0.1/UFV
TP5628
R5484
47/J3
MC10H124MR
IC5015
COM
+5D
-5D
R5487
0/J6
R5488
0/J6
R5485
470/J6
R5486
470/J6
C5435
0.1/UFV
(8) PB_DAT_B_P
(8) PB_DAT_B_N
[IC5015 -> SHEET 6]
TP5629
R5489
47/J3
R5492
0/J6
R5493
0/J6
R5490
470/J6
R5491
470/J6
C5436
0.1/UFV
(8) PB_CLK_B_P
(8) PB_CLK_B_N

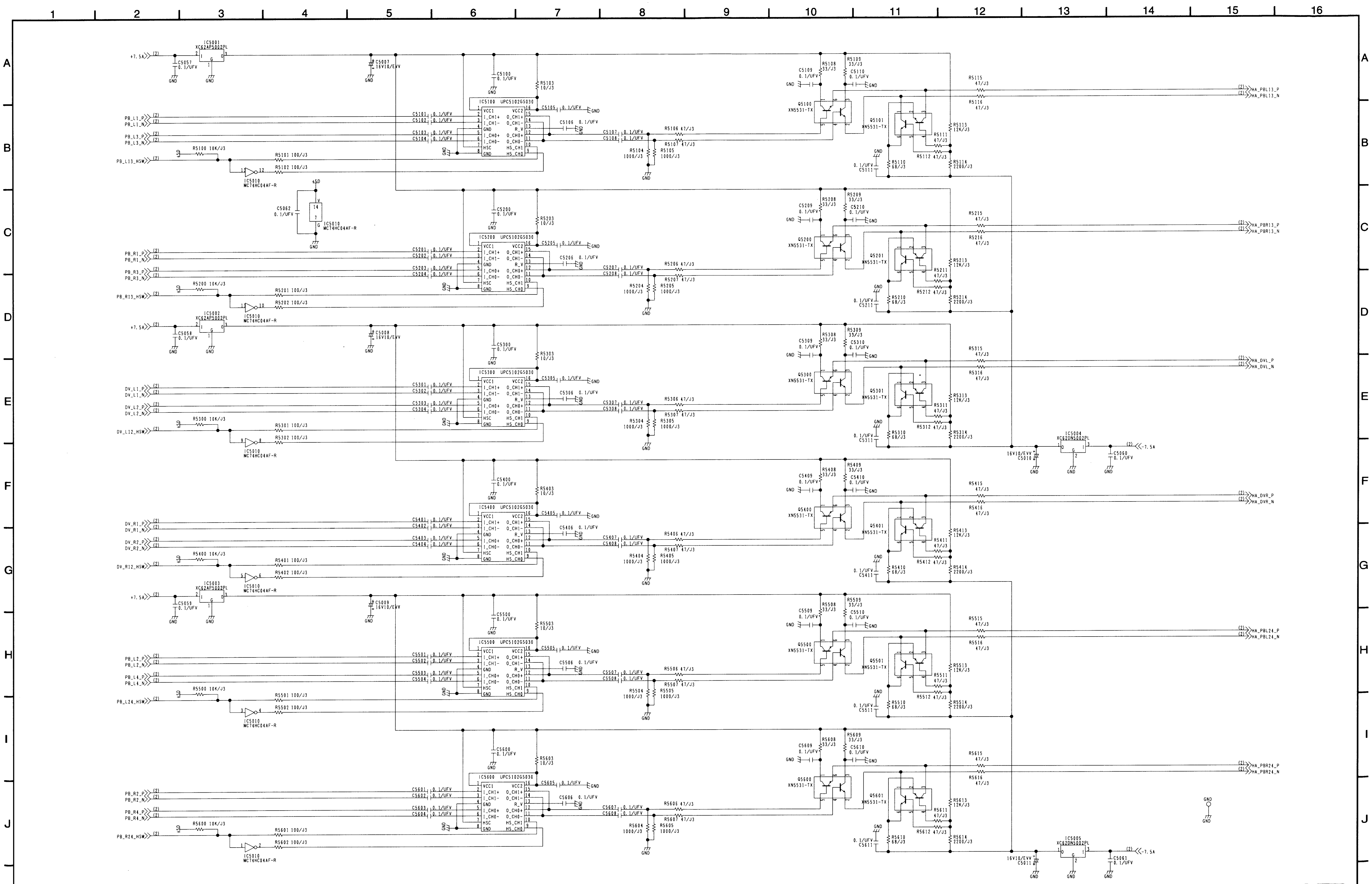
COMPONENT NAME	H2/H3/H4:EQ	07/08
CIRCUIT BOARD NO.		
VEP85177A		
		SCM219

KR5532(7/8)


P5001
VJP3454B096
1A GND
2A +12V
3A -12V
4A +7.5V
5A -7.5V
6A GND
7A RTV_SPD_A
8A REF_CLK
9A A_ATF
10A GND
11A GND
12A PB_DAT_A_N
13A PB_DAT_B_P
14A PB_CLK_B_N
15A GND
16A
17A WFM_A_RF
18A WFM_A_ENV
19A A_HSW
20A A_ENV
21A VS_CS_A
22A VS_CS_B
23A RF_CLK
24A
25A GND
26A HA_A_P
27A GND
28A HA_B_P
29A GND
30A +5V
31A -5V
32A GND
+7.5V (8)
-7.5V (8)
RTV_SPD_A (4) R5670 47/J3
REF_CLK (4) R5671 0/J3
A_ATF (4)
PB_DAT_A_N (6)
PB_DAT_B_P (7)
PB_CLK_B_N (7)
WFM_A_RF (2)
WFM_A_ENV (2)
A_HSW (1) R5672 0/J3
A_ENV (2)
VS_CS_A (6) R5673 0/J3
VS_CS_B (7) R5674 0/J3
RF_CLK (1) R5675 0/J3
+5V (8)
-5V (8)
R5692 0/J3
R5694 0/J3
R5693 0/J3
R5695 0/J3
P5002
VJP1230T
HA_A_P 1
HA_A_N 2
GND 3
HA_A_P (2)
HA_A_N (2)
P5003
VJP1230R
HA_B_P 1
HA_B_N 2
GND 3
HA_B_P (3)
HA_B_N (3)
P5001
VJP3454B096
1B GND
2B +12V
3B -12V
4B +7.5V
5B -7.5V
6B GND
7B RTV_SPD_B
8B GND
9B B_ATF
10B GND
11B GND
12B PB_CLK_A_P
13B PB_DAT_B_N
14B GND
15B GND
16B
17B WFM_B_RF
18B WFM_B_ENV
19B B_HSW
20B B_ENV
21B VS_CLK
22B VS_CLK135
23B RF_DATA
24B
25B GND
26B HA_A_N
27B GND
28B HA_B_N
29B GND
30B +5V
31B -5V
32B GND
+7.5V (8)
-7.5V (8)
RTV_SPD_B (5) R5676 47/J3
B_ATF (5)
PB_CLK_A_P (6)
PB_DAT_B_N (7)
WFM_B_RF (3)
WFM_B_ENV (3)
B_HSW (1) R5677 0/J3
B_ENV (3)
VS_CLK (6) R5678 0/J3
VS_CLK135 (6) R5679 0/J3
RF_DATA (1) R5680 0/J3
+5V (8)
-5V (8)
P5001
VJP3454B096
1C GND
2C +12V
3C -12V
4C +7.5V
5C -7.5V
6C GND
7C SLOW_H
8C SERVO_EQ0
9C 25H_50L
10C GND
11C PB_DAT_A_P
12C PB_CLK_A_N
13C PB_CLK_B_P
14C GND
15C GND
16C
17C
18C GND
19C PB_FRP
20C GND
21C VS_DATA
22C GND
23C EQLD_H
24C
25C GND
26C GND
27C GND
28C GND
29C GND
30C +5V
31C -5V
32C GND
+7.5V (8)
-7.5V (8)
SLOW_H (1) R5681 0/J3
PB_DAT_A_P (6)
PB_CLK_A_N (6)
PB_CLK_B_P (7)
PB_FRP (6) R5682 0/J3
VS_DATA (6) R5683 0/J3
EQLD_H (1) R5684 0/J3
+5V (8)
-5V (8)
+7.5V (8)
FL5601 VLF0931
IC5607 AN7805F
I G O
(1) (2) (3) (4) (5) (6) (7) +5A
C5640 16V47/EVV
C5641 0.1/UFV
C5642 16V10/EVV
C5643 0.1/UFV
C5644 16V47/EVV
-7.5V (8)
FL5602 VLF0931
IC5608 AN7905F
(1) (2) (3) (4) (5) -5A
C5645 16V47/EVV
C5646 0.1/UFV
C5647 16V10/EVV
C5648 0.1/UFV
C5649 16V47/EVV
-5V (8)
FL5603 VLF0931
(6) (7) -5D
C5650 16V47/EVV
C5651 0.1/UFV
C5652 16V10/EVV
FL5604 VLF0931
(1) (6) (7) +5D
C5655 0.1/UFV
C5656 16V10/EVV
+5V (8)
C5654 16V47/EVV
FL5605 VLF0931
IC5609 LT1086CM
T G O
L5601 4.7U
L5602 4.7U
(1) (4) (5) +3A
C5658 0.1/UFV
C5659 16V47/EVV
C5660 0.1/UFV
R5685 120/RE7
R5686 180/RE7
C5661 6V100/EVV
C5662 6V47/EVV
FL5606 VLF0931
R5688 2.2(1/2W)
Q5602 2SB956-QRTX
(4) (5) (6) (7) +3D
R5687 18(1/4W)
Q5601 2SB710A-QRTX
IC5610 XC62AP3202PL
C5663 0.1/UFV
C5664 16V47/EVV
C5665 0.1/UFV
C5666 0.1/UFV
C5667 0.1/UFV
C5668 6V47/EVV
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

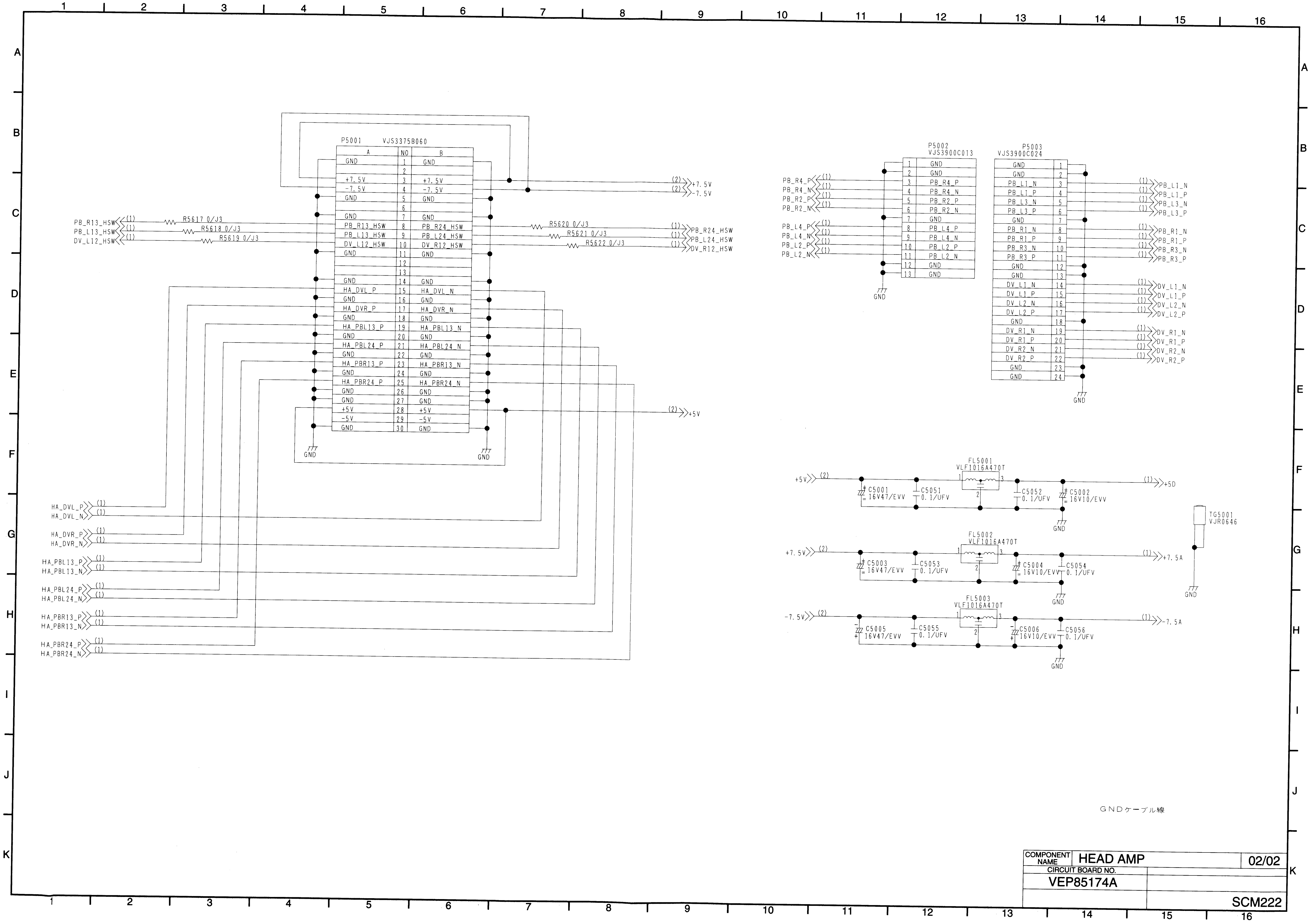
COMPONENT NAME	H2/H3/H4:EQ	08/08
CIRCUIT BOARD NO.		
VEP85177A		
		SCM220

KR5532(8/8)


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K
+7.5A (2)
IC5001
XC62AP5002PL
C5057 0.1/UFV
C5007 16V10/EVV
GND
C5100 0.1/UFV
R5103 10/J3
IC5100 UPC5102GS030
VCC1
I_CH1+
I_CH1-
GND
I_CH0+
I_CH0-
HSC
GND
VCC2
O_CH1+
O_CH1-
R_V
O_CH0+
O_CH0-
HS_CH1
HS_CH0
C5105 0.1/UFV
C5106 0.1/UFV
C5101 0.1/UFV
C5102 0.1/UFV
C5103 0.1/UFV
C5104 0.1/UFV
PB_L1_P (2)
PB_L1_N (2)
PB_L3_P (2)
PB_L3_N (2)
PB_L13_HSW (2)
+5D
R5100 10K/J3
R5101 100/J3
R5102 100/J3
IC5010
MC74HC04AF-R
C5062 0.1/UFV
C5107 0.1/UFV
C5108 0.1/UFV
R5106 47/J3
R5107 47/J3
R5104 1000/J3
R5105 1000/J3
R5108 33/J3
R5109 33/J3
C5109 0.1/UFV
C5110 0.1/UFV
Q5100 XN5531-TX
Q5101 XN5531-TX
R5110 68/J3
C5111 0.1/UFV
R5111 47/J3
R5112 47/J3
R5113 12K/J3
R5114 2200/J3
R5115 47/J3
R5116 47/J3
(2) HA_PBL13_P
(2) HA_PBL13_N
IC5200 UPC5102GS030
PB_R1_P (2)
PB_R1_N (2)
PB_R3_P (2)
PB_R3_N (2)
PB_R13_HSW (2)
Q5200 XN5531-TX
Q5201 XN5531-TX
(2) HA_PBR13_P
(2) HA_PBR13_N
IC5002
XC62AP5002PL
C5058 0.1/UFV
C5008 16V10/EVV
IC5300 UPC5102GS030
DV_L1_P (2)
DV_L1_N (2)
DV_L2_P (2)
DV_L2_N (2)
DV_L12_HSW (2)
Q5300 XN5531-TX
Q5301 XN5531-TX
(2) HA_DVL_P
(2) HA_DVL_N
IC5004
XC62DN5002PL
16V10/EVV C5010
C5060 0.1/UFV
(2) -7.5A
IC5400 UPC5102GS030
DV_R1_P (2)
DV_R1_N (2)
DV_R2_P (2)
DV_R2_N (2)
DV_R12_HSW (2)
Q5400 XN5531-TX
Q5401 XN5531-TX
(2) HA_DVR_P
(2) HA_DVR_N
IC5003
XC62AP5002PL
C5059 0.1/UFV
C5009 16V10/EVV
IC5500 UPC5102GS030
PB_L2_P (2)
PB_L2_N (2)
PB_L4_P (2)
PB_L4_N (2)
PB_L24_HSW (2)
Q5500 XN5531-TX
Q5501 XN5531-TX
(2) HA_PBL24_P
(2) HA_PBL24_N
IC5600 UPC5102GS030
PB_R2_P (2)
PB_R2_N (2)
PB_R4_P (2)
PB_R4_N (2)
PB_R24_HSW (2)
Q5600 XN5531-TX
Q5601 XN5531-TX
(2) HA_PBR24_P
(2) HA_PBR24_N
IC5005
XC62DN5002PL
16V10/EVV C5011
C5061 0.1/UFV
(2) -7.5A
GND

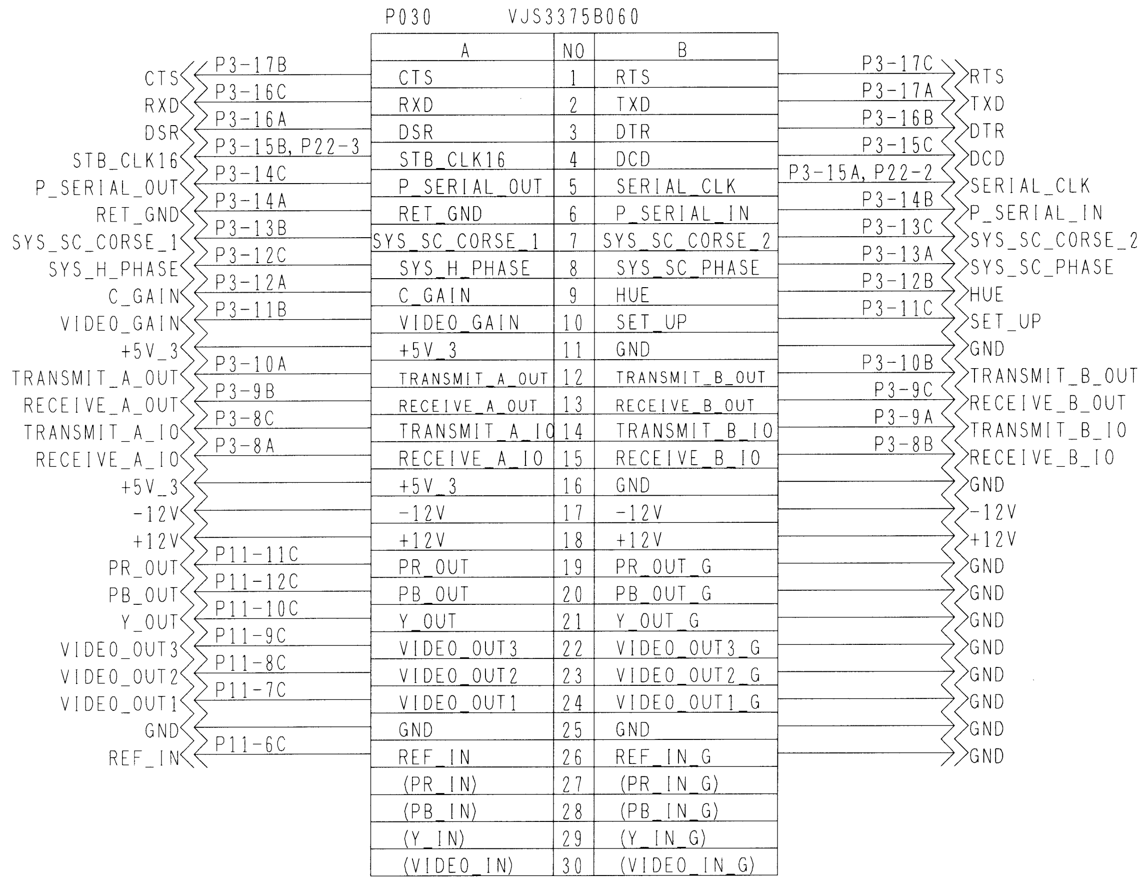
COMPONENT NAME	HEAD AMP	01/02
CIRCUIT BOARD NO.		
VEP85174A		
	SCM221	

KR5523(1/2)

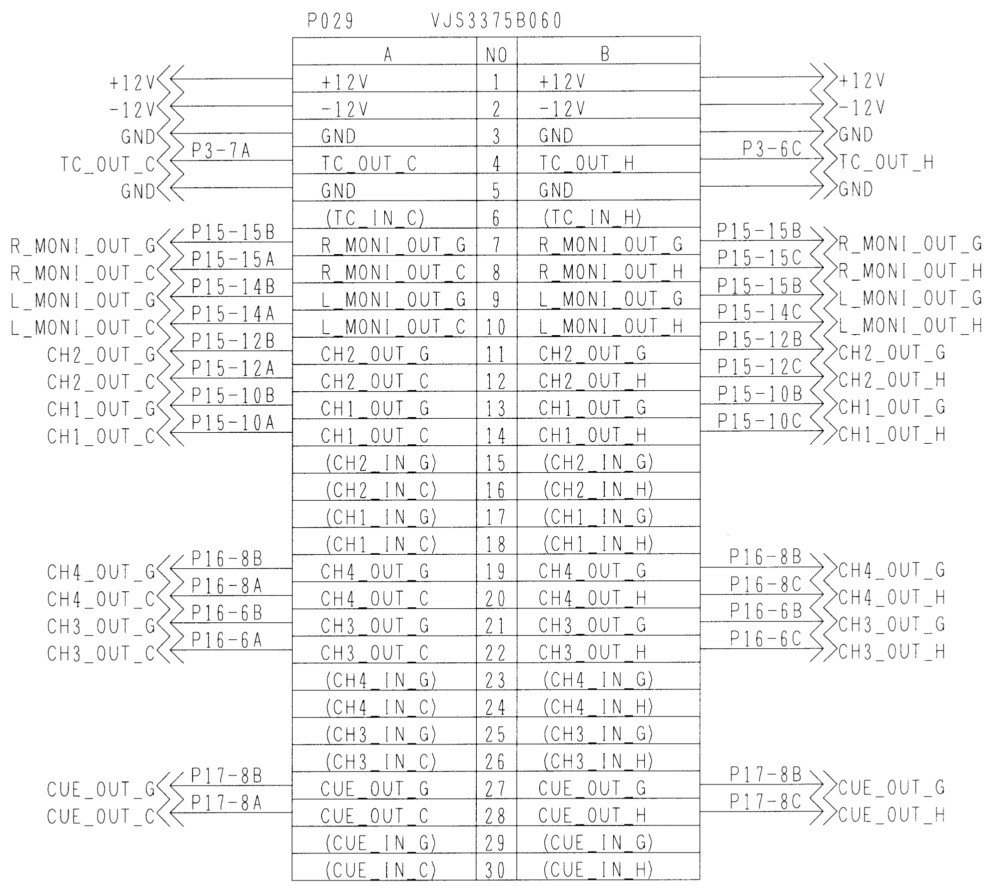

P5001 VJS3375B060
A NO B
GND 1 GND
2
+7.5V 3 +7.5V
-7.5V 4 -7.5V
GND 5 GND
6
GND 7 GND
PB_R13_HSW 8 PB_R24_HSW
PB_L13_HSW 9 PB_L24_HSW
DV_L12_HSW 10 DV_R12_HSW
GND 11 GND
12
13
GND 14 GND
HA_DVL_P 15 HA_DVL_N
GND 16 GND
HA_DVR_P 17 HA_DVR_N
GND 18 GND
HA_PBL13_P 19 HA_PBL13_N
GND 20 GND
HA_PBL24_P 21 HA_PBL24_N
GND 22 GND
HA_PBR13_P 23 HA_PBR13_N
GND 24 GND
HA_PBR24_P 25 HA_PBR24_N
GND 26 GND
GND 27 GND
+5V 28 +5V
-5V 29 -5V
GND 30 GND
R5617 0/J3
R5618 0/J3
R5619 0/J3
R5620 0/J3
R5621 0/J3
R5622 0/J3
PB_R13_HSW (1)
PB_L13_HSW (1)
DV_L12_HSW (1)
(2) +7.5V
(2) -7.5V
(1) PB_R24_HSW
(1) PB_L24_HSW
(1) DV_R12_HSW
(2) +5V
GND
GND
HA_DVL_P (1)
HA_DVL_N (1)
HA_DVR_P (1)
HA_DVR_N (1)
HA_PBL13_P (1)
HA_PBL13_N (1)
HA_PBL24_P (1)
HA_PBL24_N (1)
HA_PBR13_P (1)
HA_PBR13_N (1)
HA_PBR24_P (1)
HA_PBR24_N (1)
P5002 VJS3900C013
1 GND
2 GND
3 PB_R4_P
4 PB_R4_N
5 PB_R2_P
6 PB_R2_N
7 GND
8 PB_L4_P
9 PB_L4_N
10 PB_L2_P
11 PB_L2_N
12 GND
13 GND
PB_R4_P (1)
PB_R4_N (1)
PB_R2_P (1)
PB_R2_N (1)
PB_L4_P (1)
PB_L4_N (1)
PB_L2_P (1)
PB_L2_N (1)
GND
P5003 VJS3900C024
GND 1
GND 2
PB_L1_N 3
PB_L1_P 4
PB_L3_N 5
PB_L3_P 6
GND 7
PB_R1_N 8
PB_R1_P 9
PB_R3_N 10
PB_R3_P 11
GND 12
GND 13
DV_L1_N 14
DV_L1_P 15
DV_L2_N 16
DV_L2_P 17
GND 18
DV_R1_N 19
DV_R1_P 20
DV_R2_N 21
DV_R2_P 22
GND 23
GND 24
(1) PB_L1_N
(1) PB_L1_P
(1) PB_L3_N
(1) PB_L3_P
(1) PB_R1_N
(1) PB_R1_P
(1) PB_R3_N
(1) PB_R3_P
(1) DV_L1_N
(1) DV_L1_P
(1) DV_L2_N
(1) DV_L2_P
(1) DV_R1_N
(1) DV_R1_P
(1) DV_R2_N
(1) DV_R2_P
GND
+5V (2)
FL5001 VLF1016A470T
C5001 16V47/EVV
C5051 0.1/UFV
C5052 0.1/UFV
C5002 16V10/EVV
(1) +5D
GND
+7.5V (2)
FL5002 VLF1016A470T
C5003 16V47/EVV
C5053 0.1/UFV
C5004 16V10/EVV
C5054 0.1/UFV
(1) +7.5A
GND
-7.5V (2)
FL5003 VLF1016A470T
C5005 16V47/EVV
C5055 0.1/UFV
C5006 16V10/EVV
C5056 0.1/UFV
(1) -7.5A
GND
TG5001 VJR0646
GND
GNDケーブル線

COMPONENT NAME	HEAD AMP	02/02
CIRCUIT BOARD NO.		
VEP85174A		
		SCM222

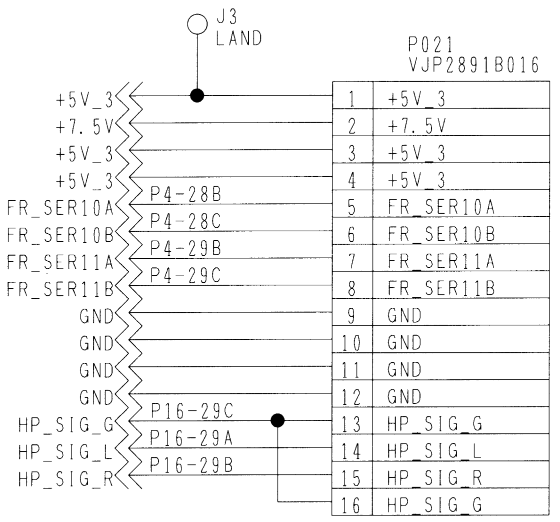
TO V/S_JACK


P030 VJS3375B060
A NO B
CTS 1 RTS
RXD 2 TXD
DSR 3 DTR
STB_CLK16 4 DCD
P_SERIAL_OUT 5 SERIAL_CLK
RET_GND 6 P_SERIAL_IN
SYS_SC_CORSE_1 7 SYS_SC_CORSE_2
SYS_H_PHASE 8 SYS_SC_PHASE
C_GAIN 9 HUE
VIDEO_GAIN 10 SET_UP
+5V_3 11 GND
TRANSMIT_A_OUT 12 TRANSMIT_B_OUT
RECEIVE_A_OUT 13 RECEIVE_B_OUT
TRANSMIT_A_IO 14 TRANSMIT_B_IO
RECEIVE_A_IO 15 RECEIVE_B_IO
+5V_3 16 GND
-12V 17 -12V
+12V 18 +12V
PR_OUT 19 PR_OUT_G
PB_OUT 20 PB_OUT_G
Y_OUT 21 Y_OUT_G
VIDEO_OUT3 22 VIDEO_OUT3_G
VIDEO_OUT2 23 VIDEO_OUT2_G
VIDEO_OUT1 24 VIDEO_OUT1_G
GND 25 GND
REF_IN 26 REF_IN_G
(PR_IN) 27 (PR_IN_G)
(PB_IN) 28 (PB_IN_G)
(Y_IN) 29 (Y_IN_G)
(VIDEO_IN) 30 (VIDEO_IN_G)
CTS P3-17B
RXD P3-16C
DSR P3-16A
STB_CLK16 P3-15B, P22-3
P_SERIAL_OUT P3-14C
RET_GND P3-14A
SYS_SC_CORSE_1 P3-13B
SYS_H_PHASE P3-12C
C_GAIN P3-12A
VIDEO_GAIN P3-11B
+5V_3
TRANSMIT_A_OUT P3-10A
RECEIVE_A_OUT P3-9B
TRANSMIT_A_IO P3-8C
RECEIVE_A_IO P3-8A
+5V_3
-12V
+12V
PR_OUT P11-11C
PB_OUT P11-12C
Y_OUT P11-10C
VIDEO_OUT3 P11-9C
VIDEO_OUT2 P11-8C
VIDEO_OUT1 P11-7C
GND
REF_IN P11-6C
P3-17C RTS
P3-17A TXD
P3-16B DTR
P3-15C DCD
P3-15A, P22-2 SERIAL_CLK
P3-14B P_SERIAL_IN
P3-13C SYS_SC_CORSE_2
P3-13A SYS_SC_PHASE
P3-12B HUE
P3-11C SET_UP
GND
P3-10B TRANSMIT_B_OUT
P3-9C RECEIVE_B_OUT
P3-9A TRANSMIT_B_IO
P3-8B RECEIVE_B_IO
GND
-12V
+12V
GND
GND
GND
GND
GND
GND
GND
GND

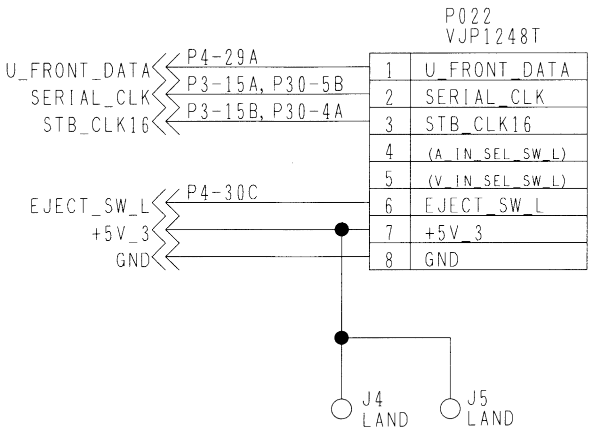
TO A_JACK


P029 VJS3375B060
A NO B
+12V 1 +12V
-12V 2 -12V
GND 3 GND
TC_OUT_C 4 TC_OUT_H
GND 5 GND
(TC_IN_C) 6 (TC_IN_H)
R_MONI_OUT_G 7 R_MONI_OUT_G
R_MONI_OUT_C 8 R_MONI_OUT_H
L_MONI_OUT_G 9 L_MONI_OUT_G
L_MONI_OUT_C 10 L_MONI_OUT_H
CH2_OUT_G 11 CH2_OUT_G
CH2_OUT_C 12 CH2_OUT_H
CH1_OUT_G 13 CH1_OUT_G
CH1_OUT_C 14 CH1_OUT_H
(CH2_IN_G) 15 (CH2_IN_G)
(CH2_IN_C) 16 (CH2_IN_H)
(CH1_IN_G) 17 (CH1_IN_G)
(CH1_IN_C) 18 (CH1_IN_H)
CH4_OUT_G 19 CH4_OUT_G
CH4_OUT_C 20 CH4_OUT_H
CH3_OUT_G 21 CH3_OUT_G
CH3_OUT_C 22 CH3_OUT_H
(CH4_IN_G) 23 (CH4_IN_G)
(CH4_IN_C) 24 (CH4_IN_H)
(CH3_IN_G) 25 (CH3_IN_G)
(CH3_IN_C) 26 (CH3_IN_H)
CUE_OUT_G 27 CUE_OUT_G
CUE_OUT_C 28 CUE_OUT_H
(CUE_IN_G) 29 (CUE_IN_G)
(CUE_IN_C) 30 (CUE_IN_H)
+12V
-12V
GND
TC_OUT_C P3-7A
GND
R_MONI_OUT_G P15-15B
R_MONI_OUT_C P15-15A
L_MONI_OUT_G P15-14B
L_MONI_OUT_C P15-14A
CH2_OUT_G P15-12B
CH2_OUT_C P15-12A
CH1_OUT_G P15-10B
CH1_OUT_C P15-10A
CH4_OUT_G P16-8B
CH4_OUT_C P16-8A
CH3_OUT_G P16-6B
CH3_OUT_C P16-6A
CUE_OUT_G P17-8B
CUE_OUT_C P17-8A
+12V
-12V
GND
P3-6C TC_OUT_H
GND
P15-15B R_MONI_OUT_G
P15-15C R_MONI_OUT_H
P15-15B L_MONI_OUT_G
P15-14C L_MONI_OUT_H
P15-12B CH2_OUT_G
P15-12C CH2_OUT_H
P15-10B CH1_OUT_G
P15-10C CH1_OUT_H
P16-8B CH4_OUT_G
P16-8C CH4_OUT_H
P16-6B CH3_OUT_G
P16-6C CH3_OUT_H
P17-8B CUE_OUT_G
P17-8C CUE_OUT_H

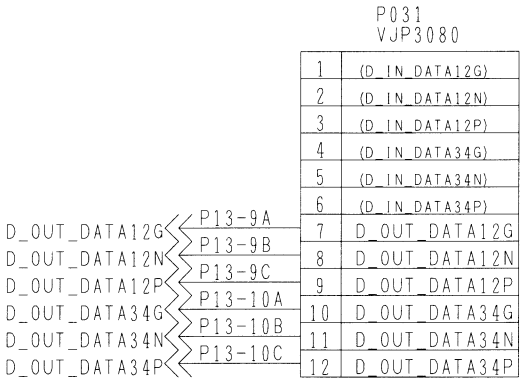
TO FRONT


J3 LAND
P021 VJP2891B016
1 +5V_3
2 +7.5V
3 +5V_3
4 +5V_3
5 FR_SER10A
6 FR_SER10B
7 FR_SER11A
8 FR_SER11B
9 GND
10 GND
11 GND
12 GND
13 HP_SIG_G
14 HP_SIG_L
15 HP_SIG_R
16 HP_SIG_G
+5V_3
+7.5V
+5V_3
+5V_3
FR_SER10A P4-28B
FR_SER10B P4-28C
FR_SER11A P4-29B
FR_SER11B P4-29C
GND
GND
GND
GND
HP_SIG_G P16-29C
HP_SIG_L P16-29A
HP_SIG_R P16-29B

TO UP_FRONT

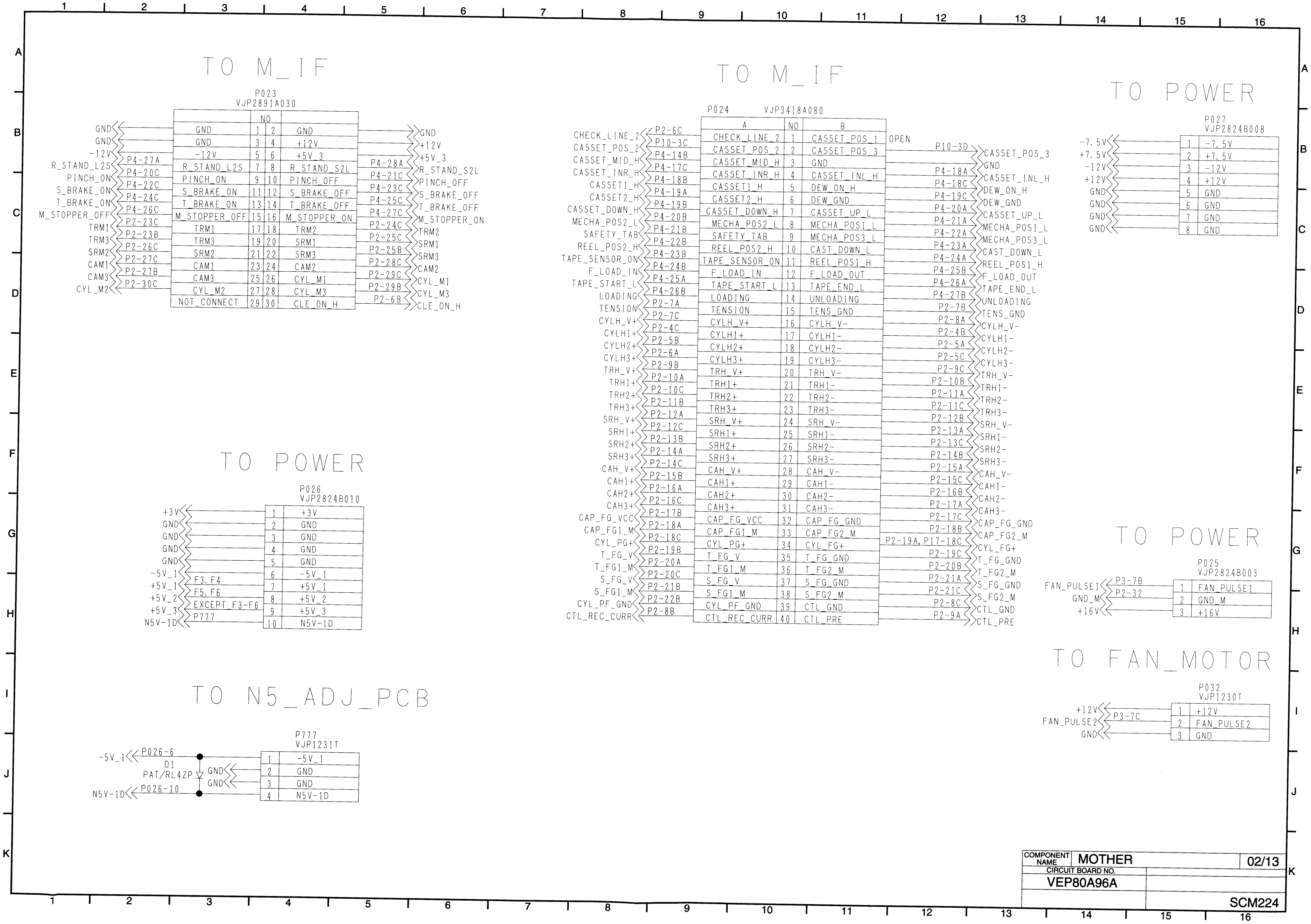

P022 VJP1248T
1 U_FRONT_DATA
2 SERIAL_CLK
3 STB_CLK16
4 (A_IN_SEL_SW_L)
5 (V_IN_SEL_SW_L)
6 EJECT_SW_L
7 +5V_3
8 GND
U_FRONT_DATA P4-29A
SERIAL_CLK P3-15A, P30-5B
STB_CLK16 P3-15B, P30-4A
EJECT_SW_L P4-30C
+5V_3
GND
J4 LAND
J5 LAND

TO AES/EBU


P031 VJP3080
1 (D_IN_DATA12G)
2 (D_IN_DATA12N)
3 (D_IN_DATA12P)
4 (D_IN_DATA34G)
5 (D_IN_DATA34N)
6 (D_IN_DATA34P)
7 D_OUT_DATA12G
8 D_OUT_DATA12N
9 D_OUT_DATA12P
10 D_OUT_DATA34G
11 D_OUT_DATA34N
12 D_OUT_DATA34P
D_OUT_DATA12G P13-9A
D_OUT_DATA12N P13-9B
D_OUT_DATA12P P13-9C
D_OUT_DATA34G P13-10A
D_OUT_DATA34N P13-10B
D_OUT_DATA34P P13-10C

COMPONENT NAME	MOTHER	01/13
CIRCUIT BOARD NO.		
VEP80A96A		
		SCM223

KROL93(1/13)



TO M_IF

P023
VJP2891A030

Signal	Via	Name	NO	NO	Name	Via	Signal
GND		GND	1	2	GND		GND
GND		GND	3	4	+12V		+12V
-12V		-12V	5	6	+5V_3		+5V_3
R_STAND_L2S	P4-27A	R_STAND_L2S	7	8	R_STAND_S2L	P4-28A	R_STAND_S2L
PINCH_ON	P4-20C	PINCH_ON	9	10	PINCH_OFF	P4-21C	PINCH_OFF
S_BRAKE_ON	P4-22C	S_BRAKE_ON	11	12	S_BRAKE_OFF	P4-23C	S_BRAKE_OFF
T_BRAKE_ON	P4-24C	T_BRAKE_ON	13	14	T_BRAKE_OFF	P4-25C	T_BRAKE_OFF
M_STOPPER_OFF	P4-26C	M_STOPPER_OFF	15	16	M_STOPPER_ON	P4-27C	M_STOPPER_ON
TRM1	P2-23C	TRM1	17	18	TRM2	P2-24C	TRM2
TRM3	P2-23B	TRM3	19	20	SRM1	P2-25C	SRM1
SRM2	P2-26C	SRM2	21	22	SRM3	P2-25B	SRM3
CAM1	P2-27C	CAM1	23	24	CAM2	P2-28C	CAM2
CAM3	P2-27B	CAM3	25	26	CYL_M1	P2-29C	CYL_M1
CYL_M2	P2-30C	CYL_M2	27	28	CYL_M3	P2-29B	CYL_M3
		NOT_CONNECT	29	30	CLE_ON_H	P2-6B	CLE_ON_H

TO M_IF

P024 VJP3418A080

Signal	Via	A	NO	B	Via	Signal
CHECK_LINE_2	P2-6C	CHECK_LINE_2	1	CASSET_POS_1	OPEN	
CASSET_POS_2	P10-3C	CASSET_POS_2	2	CASSET_POS_3	P10-3D	CASSET_POS_3
CASSET_MID_H	P4-14B	CASSET_MID_H	3	GND		GND
CASSET_INR_H	P4-17C	CASSET_INR_H	4	CASSET_INL_H	P4-18A	CASSET_INL_H
CASSET1_H	P4-18B	CASSET1_H	5	DEW_ON_H	P4-18C	DEW_ON_H
CASSET2_H	P4-19A	CASSET2_H	6	DEW_GND	P4-19C	DEW_GND
CASSET_DOWN_H	P4-19B	CASSET_DOWN_H	7	CASSET_UP_L	P4-20A	CASSET_UP_L
MECHA_POS2_L	P4-20B	MECHA_POS2_L	8	MECHA_POS1_L	P4-21A	MECHA_POS1_L
SAFETY_TAB	P4-21B	SAFETY_TAB	9	MECHA_POS3_L	P4-22A	MECHA_POS3_L
REEL_POS2_H	P4-22B	REEL_POS2_H	10	CAST_DOWN_L	P4-23A	CAST_DOWN_L
TAPE_SENSOR_ON	P4-23B	TAPE_SENSOR_ON	11	REEL_POS1_H	P4-24A	REEL_POS1_H
F_LOAD_IN	P4-24B	F_LOAD_IN	12	F_LOAD_OUT	P4-25B	F_LOAD_OUT
TAPE_START_L	P4-25A	TAPE_START_L	13	TAPE_END_L	P4-26A	TAPE_END_L
LOADING	P4-26B	LOADING	14	UNLOADING	P4-27B	UNLOADING
TENSION	P2-7A	TENSION	15	TENS_GND	P2-7B	TENS_GND
CYLH_V+	P2-7C	CYLH_V+	16	CYLH_V-	P2-8A	CYLH_V-
CYLH1+	P2-4C	CYLH1+	17	CYLH1-	P2-4B	CYLH1-
CYLH2+	P2-5B	CYLH2+	18	CYLH2-	P2-5A	CYLH2-
CYLH3+	P2-6A	CYLH3+	19	CYLH3-	P2-5C	CYLH3-
TRH_V+	P2-9B	TRH_V+	20	TRH_V-	P2-9C	TRH_V-
TRH1+	P2-10A	TRH1+	21	TRH1-	P2-10B	TRH1-
TRH2+	P2-10C	TRH2+	22	TRH2-	P2-11A	TRH2-
TRH3+	P2-11B	TRH3+	23	TRH3-	P2-11C	TRH3-
SRH_V+	P2-12A	SRH_V+	24	SRH_V-	P2-12B	SRH_V-
SRH1+	P2-12C	SRH1+	25	SRH1-	P2-13A	SRH1-
SRH2+	P2-13B	SRH2+	26	SRH2-	P2-13C	SRH2-
SRH3+	P2-14A	SRH3+	27	SRH3-	P2-14B	SRH3-
CAH_V+	P2-14C	CAH_V+	28	CAH_V-	P2-15A	CAH_V-
CAH1+	P2-15B	CAH1+	29	CAH1-	P2-15C	CAH1-
CAH2+	P2-16A	CAH2+	30	CAH2-	P2-16B	CAH2-
CAH3+	P2-16C	CAH3+	31	CAH3-	P2-17A	CAH3-
CAP_FG_VCC	P2-17B	CAP_FG_VCC	32	CAP_FG_GND	P2-17C	CAP_FG_GND
CAP_FG1_M	P2-18A	CAP_FG1_M	33	CAP_FG2_M	P2-18B	CAP_FG2_M
CYL_PG+	P2-18C	CYL_PG+	34	CYL_FG+	P2-19A, P17-18C	CYL_FG+
T_FG_V	P2-19B	T_FG_V	35	T_FG_GND	P2-19C	T_FG_GND
T_FG1_M	P2-20A	T_FG1_M	36	T_FG2_M	P2-20B	T_FG2_M
S_FG_V	P2-20C	S_FG_V	37	S_FG_GND	P2-21A	S_FG_GND
S_FG1_M	P2-21B	S_FG1_M	38	S_FG2_M	P2-21C	S_FG2_M
CYL_PF_GND	P2-22B	CYL_PF_GND	39	CTL_GND	P2-8C	CTL_GND
CTL_REC_CURR	P2-8B	CTL_REC_CURR	40	CTL_PRE	P2-9A	CTL_PRE

TO POWER

P027
VJP2824B008

Signal	NO	Name
-7.5V	1	-7.5V
+7.5V	2	+7.5V
-12V	3	-12V
+12V	4	+12V
GND	5	GND
GND	6	GND
GND	7	GND
GND	8	GND

TO POWER

P026
VJP2824B010

Signal	Via	NO	Name
+3V		1	+3V
GND		2	GND
GND		3	GND
GND		4	GND
GND		5	GND
-5V_1		6	-5V_1
+5V_1	F3. F4	7	+5V_1
+5V_2	F5. F6	8	+5V_2
+5V_3	EXCEPT_F3-F6	9	+5V_3
N5V-1D	P777	10	N5V-1D

TO POWER

P025
VJP2824B003

Signal	Via	NO	Name
FAN_PULSE1	P3-7B	1	FAN_PULSE1
GND_M	P2-32	2	GND_M
+16V		3	+16V

TO FAN_MOTOR

P032
VJP1230T

Signal	Via	NO	Name
+12V		1	+12V
FAN_PULSE2	P3-7C	2	FAN_PULSE2
GND		3	GND

TO N5_ADJ_PCB

P777
VJP1231T

Signal	Via	NO	Name
-5V_1	P026-6	1	-5V_1
GND		2	GND
GND		3	GND
N5V-1D	P026-10	4	N5V-1D

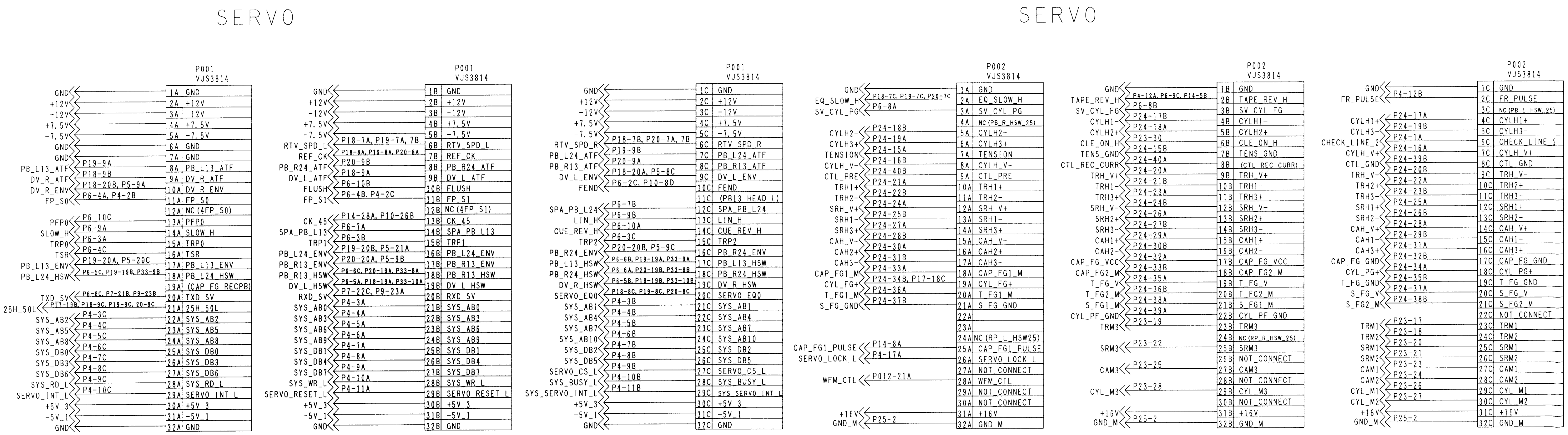
D1
PAT/RL4ZP

COMPONENT NAME	MOTHER	02/13
CIRCUIT BOARD NO.		
VEP80A96A		
		SCM224

KROL93(2/13)

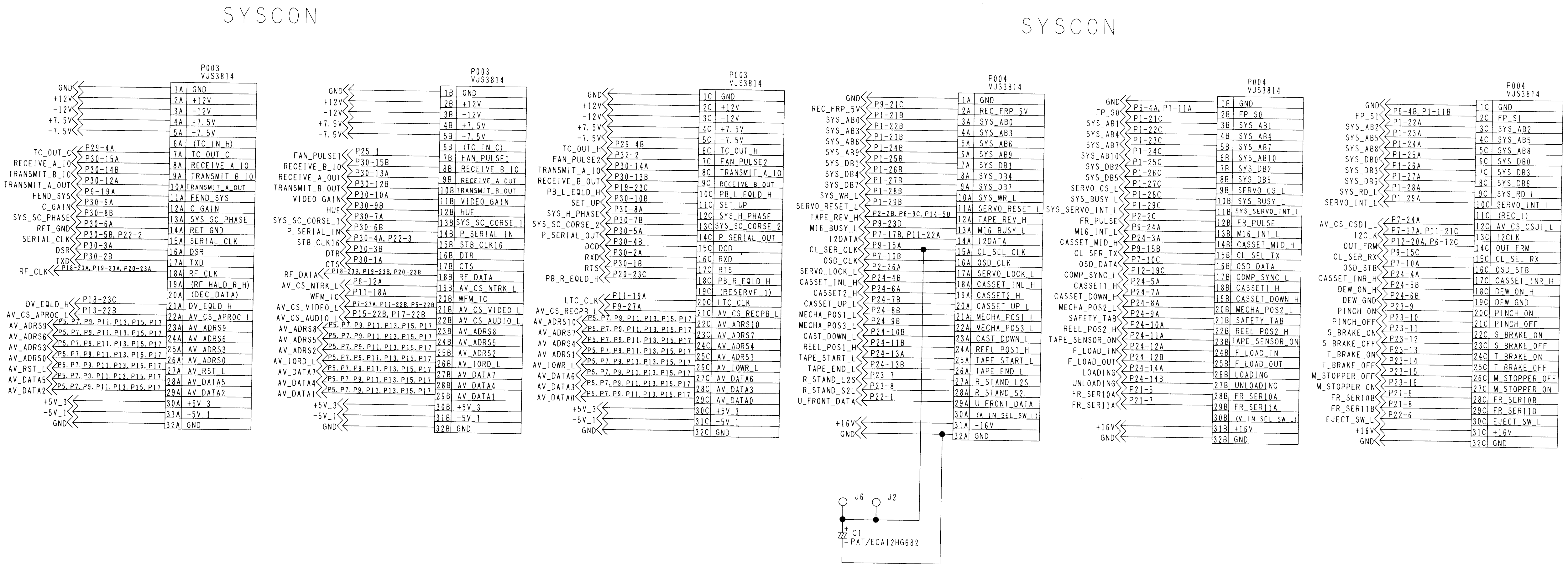
KROL93(3/13)

F 1


SERVO
P001
VJS3814
GND 1A GND
+12V 2A +12V
-12V 3A -12V
+7.5V 4A +7.5V
-7.5V 5A -7.5V
GND 6A GND
GND 7A GND
PB_L13_ATF P19-9A 8A PB_L13_ATF
DV_R_ATF P18-9B 9A DV_R_ATF
DV_R_ENV P18-20B, P5-9A 10A DV_R_ENV
FP_S0 P6-4A, P4-2B 11A FP_S0
12A NC (4FP_S0)
PFP0 P6-10C 13A PFP0
SLOW_H P6-9A 14A SLOW_H
TRP0 P6-3A 15A TRP0
TSR P6-4C 16A TSR
PB_L13_ENV P19-20A, P5-20C 17A PB_L13_ENV
PB_L24_HSW P6-5C, P19-19B, P33-9B 18A PB_L24_HSW
19A (CAP_FG_RECPB)
TXD_SV P6-8C, P7-21B, P9-23B 20A TXD_SV
25H_50L P17-19B, P18-9C, P19-9C, 20-9C 21A 25H_50L
SYS_AB2 P4-3C 22A SYS_AB2
SYS_AB5 P4-4C 23A SYS_AB5
SYS_AB8 P4-5C 24A SYS_AB8
SYS_DB0 P4-6C 25A SYS_DB0
SYS_DB3 P4-7C 26A SYS_DB3
SYS_DB6 P4-8C 27A SYS_DB6
SYS_RD_L P4-9C 28A SYS_RD_L
SERVO_INT_L P4-10C 29A SERVO_INT_L
+5V_3 30A +5V_3
-5V_1 31A -5V_1
GND 32A GND
P001
VJS3814
GND 1B GND
+12V 2B +12V
-12V 3B -12V
+7.5V 4B +7.5V
-7.5V 5B -7.5V
RTV_SPD_L P18-7A, P19-7A, 7B 6B RTV_SPD_L
REF_CK P18-8A, P19-8A, P20-8A 7B REF_CK
PB_R24_ATF P20-9B 8B PB_R24_ATF
DV_L_ATF P18-9A 9B DV_L_ATF
FLUSH P6-10B 10B FLUSH
FP_S1 P6-4B, P4-2C 11B FP_S1
12B NC (4FP_S1)
CK_45 P14-28A, P10-26B 13B CK_45
SPA_PB_L13 P6-7A 14B SPA_PB_L13
TRP1 P6-3B 15B TRP1
PB_L24_ENV P19-20B, P5-21A 16B PB_L24_ENV
PB_R13_ENV P20-20A, P5-9B 17B PB_R13_ENV
PB_R13_HSW P6-6C, P20-19A, P33-8A 18B PB_R13_HSW
DV_L_HSW P6-5A, P18-19A, P33-10A 19B DV_L_HSW
RXD_SV P7-22C, P9-23A 20B RXD_SV
SYS_AB0 P4-3A 21B SYS_AB0
SYS_AB3 P4-4A 22B SYS_AB3
SYS_AB6 P4-5A 23B SYS_AB6
SYS_AB9 P4-6A 24B SYS_AB9
SYS_DB1 P4-7A 25B SYS_DB1
SYS_DB4 P4-8A 26B SYS_DB4
SYS_DB7 P4-9A 27B SYS_DB7
SYS_WR_L P4-10A 28B SYS_WR_L
SERVO_RESET_L P4-11A 29B SERVO_RESET_L
+5V_3 30B +5V_3
-5V_1 31B -5V_1
GND 32B GND
P001
VJS3814
GND 1C GND
+12V 2C +12V
-12V 3C -12V
+7.5V 4C +7.5V
-7.5V 5C -7.5V
RTV_SPD_R P18-7B, P20-7A, 7B 6C RTV_SPD_R
PB_L24_ATF P19-9B 7C PB_L24_ATF
PB_R13_ATF P20-9A 8C PB_R13_ATF
DV_L_ENV P18-20A, P5-8C 9C DV_L_ENV
FEND P6-2C, P10-8D 10C FEND
11C (PB13_HEAD_L)
SPA_PB_L24 P6-7B 12C SPA_PB_L24
LIN_H P6-9B 13C LIN_H
CUE_REV_H P6-10A 14C CUE_REV_H
TRP2 P6-3C 15C TRP2
PB_R24_ENV P20-20B, P5-9C 16C PB_R24_ENV
PB_L13_HSW P6-6B, P19-19A, P33-9A 17C PB_L13_HSW
PB_R24_HSW P6-6A, P20-19B, P33-8B 18C PB_R24_HSW
DV_R_HSW P6-5B, P18-19B, P33-10B 19C DV_R_HSW
SERVO_EQ0 P18-8C, P19-8C, P20-8C 20C SERVO_EQ0
SYS_AB1 P4-3B 21C SYS_AB1
SYS_AB4 P4-4B 22C SYS_AB4
SYS_AB7 P4-5B 23C SYS_AB7
SYS_AB10 P4-6B 24C SYS_AB10
SYS_DB2 P4-7B 25C SYS_DB2
SYS_DB5 P4-8B 26C SYS_DB5
SERVO_CS_L P4-9B 27C SERVO_CS_L
SYS_BUSY_L P4-10B 28C SYS_BUSY_L
SYS_SERVO_INT_L P4-11B 29C SYS_SERVO_INT_L
+5V_3 30C +5V_3
-5V_1 31C -5V_1
GND 32C GND
SERVO
P002
VJS3814
GND 1A GND
EQ_SLOW_H P18-7C, P19-7C, P20-7C 2A EQ_SLOW_H
SV_CYL_PG P6-8A 3A SV_CYL_PG
4A NC (PB_R_HSW_25)
CYLH2- P24-18B 5A CYLH2-
CYLH3+ P24-19A 6A CYLH3+
TENSION P24-15A 7A TENSION
CYLH_V- P24-16B 8A CYLH_V-
CTL_PRE P24-40B 9A CTL_PRE
TRH1+ P24-21A 10A TRH1+
TRH2- P24-22B 11A TRH2-
SRH_V+ P24-24A 12A SRH_V+
SRH1- P24-25B 13A SRH1-
SRH3+ P24-27A 14A SRH3+
CAH_V- P24-28B 15A CAH_V-
CAH2+ P24-30A 16A CAH2+
CAH3- P24-31B 17A CAH3-
CAP_FG1_M P24-33A 18A CAP_FG1_M
CYL_FG+ P24-34B, P17-18C 19A CYL_FG+
T_FG1_M P24-36A 20A T_FG1_M
S_FG_GND P24-37B 21A S_FG_GND
22A
23A
24A NC (RP_L_HSW25)
CAP_FG1_PULSE P14-8A 25A CAP_FG1_PULSE
SERVO_LOCK_L P4-17A 26A SERVO_LOCK_L
27A NOT_CONNECT
WFM_CTL P012-21A 28A WFM_CTL
29A NOT_CONNECT
30A NOT_CONNECT
+16V 31A +16V
GND_M P25-2 32A GND_M
P002
VJS3814
GND 1B GND
TAPE_REV_H P4-12A, P6-9C, P14-5B 2B TAPE_REV_H
SV_CYL_FG P6-8B 3B SV_CYL_FG
CYLH1- P24-17B 4B CYLH1-
CYLH2+ P24-18A 5B CYLH2+
CLE_ON_H P23-30 6B CLE_ON_H
TENS_GND P24-15B 7B TENS_GND
CTL_REC_CURR P24-40A 8B (CTL_REC_CURR)
TRH_V+ P24-20A 9B TRH_V+
TRH1- P24-21B 10B TRH1-
TRH3+ P24-23A 11B TRH3+
SRH_V- P24-24B 12B SRH_V-
SRH2+ P24-26A 13B SRH2+
SRH3- P24-27B 14B SRH3-
CAH1+ P24-29A 15B CAH1+
CAH2- P24-30B 16B CAH2-
CAP_FG_VCC P24-32A 17B CAP_FG_VCC
CAP_FG2_M P24-33B 18B CAP_FG2_M
T_FG_V P24-35A 19B T_FG_V
T_FG2_M P24-36B 20B T_FG2_M
S_FG1_M P24-38A 21B S_FG1_M
CYL_PF_GND P24-39A 22B CYL_PF_GND
TRM3 P23-19 23B TRM3
24B NC (RP_R_HSW_25)
SRM3 P23-22 25B SRM3
26B NOT_CONNECT
CAM3 P23-25 27B CAM3
28B NOT_CONNECT
CYL_M3 P23-28 29B CYL_M3
30B NOT_CONNECT
+16V 31B +16V
GND_M P25-2 32B GND_M
P002
VJS3814
GND 1C GND
FR_PULSE P4-12B 2C FR_PULSE
3C NC (PB_L_HSW_25)
CYLH1+ P24-17A 4C CYLH1+
CYLH3- P24-19B 5C CYLH3-
CHECK_LINE_2 P24-1A 6C CHECK_LINE_2
CYLH_V+ P24-16A 7C CYLH_V+
CTL_GND P24-39B 8C CTL_GND
TRH_V- P24-20B 9C TRH_V-
TRH2+ P24-22A 10C TRH2+
TRH3- P24-23B 11C TRH3-
SRH1+ P24-25A 12C SRH1+
SRH2- P24-26B 13C SRH2-
CAH_V+ P24-28A 14C CAH_V+
CAH1- P24-29B 15C CAH1-
CAH3+ P24-31A 16C CAH3+
CAP_FG_GND P24-32B 17C CAP_FG_GND
CYL_PG+ P24-34A 18C CYL_PG+
T_FG_GND P24-35B 19C T_FG_GND
S_FG_V P24-37A 20C S_FG_V
S_FG2_M P24-38B 21C S_FG2_M
22C NOT_CONNECT
TRM1 P23-17 23C TRM1
TRM2 P23-18 24C TRM2
SRM1 P23-20 25C SRM1
SRM2 P23-21 26C SRM2
CAM1 P23-23 27C CAM1
CAM2 P23-24 28C CAM2
CYL_M1 P23-26 29C CYL_M1
CYL_M2 P23-27 30C CYL_M2
+16V 31C +16V
GND_M P25-2 32C GND_M

COMPONENT NAME	MOTHER	03/13
CIRCUIT BOARD NO.		
VEP80A96A		
		SCM225

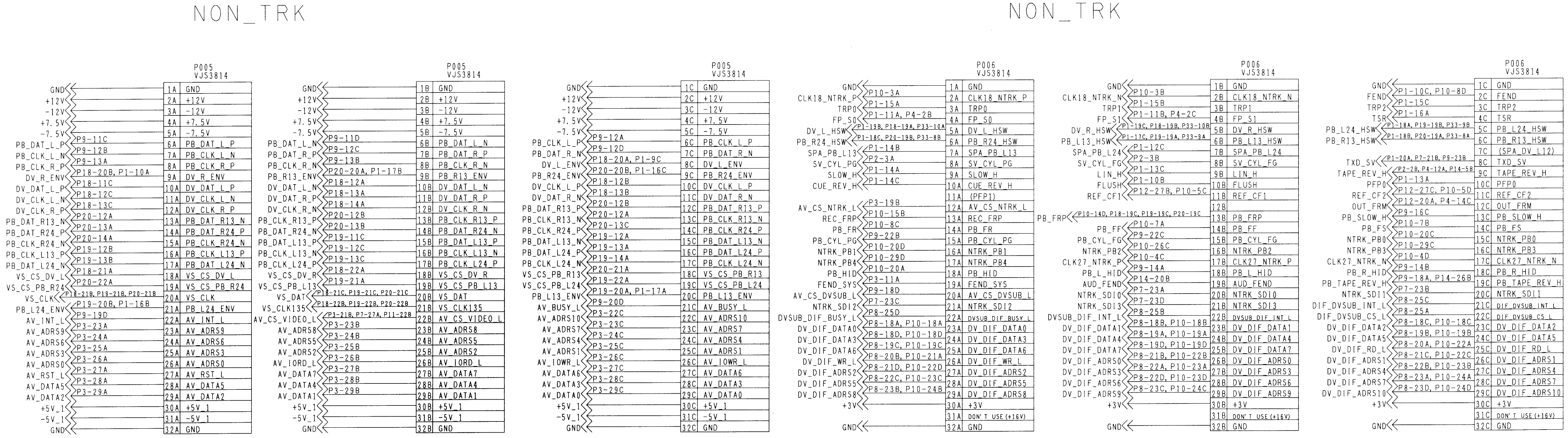
F2


SYSCON
SYSCON
P003
VJS3814
P003
VJS3814
P003
VJS3814
P004
VJS3814
P004
VJS3814
P004
VJS3814
J6
J2
C1
PAT/ECA12HG682

COMPONENT NAME	MOTHER	04/13
CIRCUIT BOARD NO.		
VEP80A96A		
		SCM226

KROL93(4/13)

F3

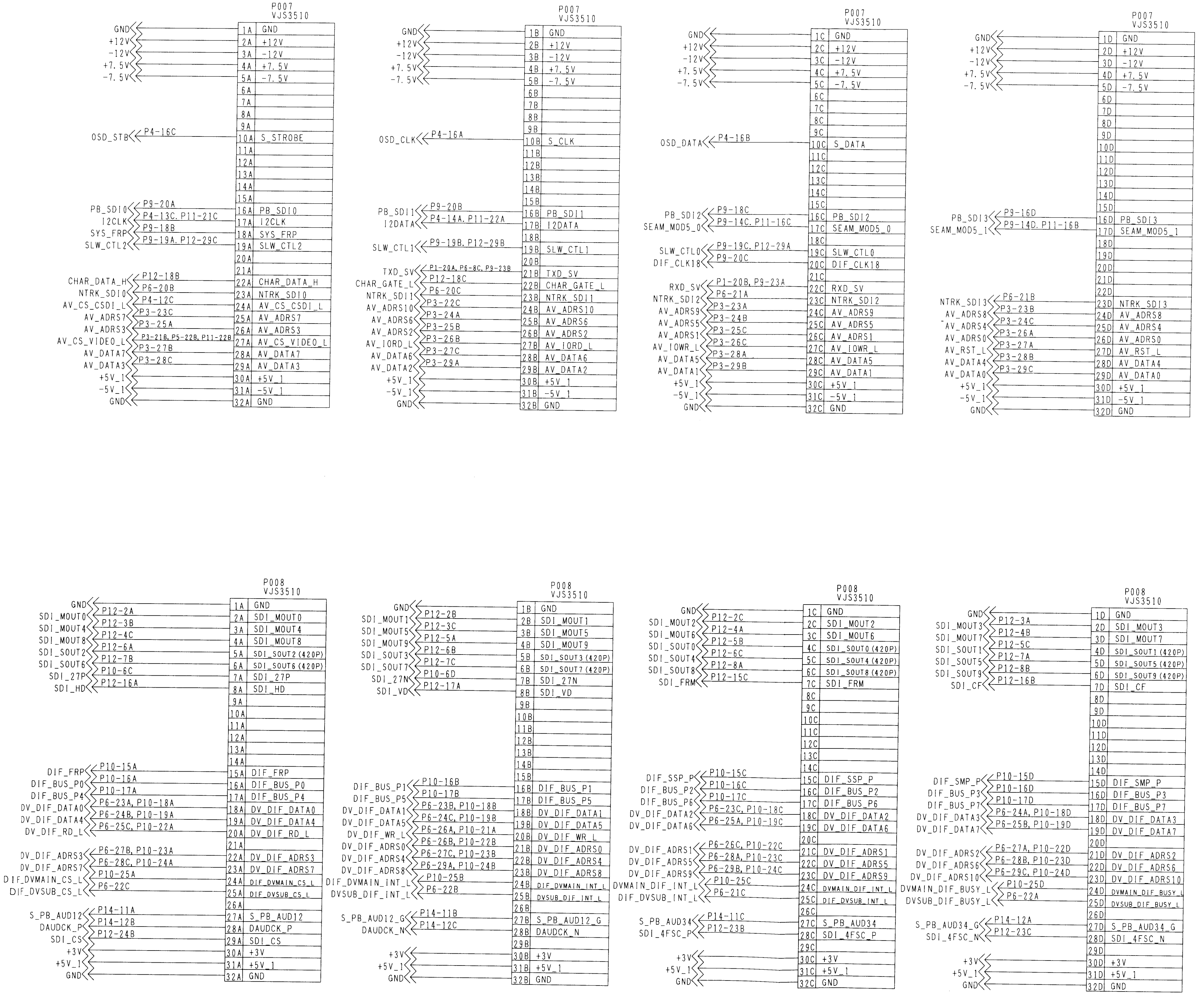

NON_TRK
P005
VJS3814
GND 1A GND
+12V 2A +12V
-12V 3A -12V
+7.5V 4A +7.5V
-7.5V 5A -7.5V
PB_DAT_L_P P9-11C 6A PB_DAT_L_P
PB_CLK_L_N P9-12B 7A PB_CLK_L_N
PB_CLK_R_P P9-13A 8A PB_CLK_R_P
DV_R_ENV P18-20B, P1-10A 9A DV_R_ENV
DV_DAT_L_P P18-11C 10A DV_DAT_L_P
DV_CLK_L_N P18-12C 11A DV_CLK_L_N
DV_CLK_R_P P18-13C 12A DV_CLK_R_P
PB_DAT_R13_N P20-12A 13A PB_DAT_R13_N
PB_DAT_R24_P P20-13A 14A PB_DAT_R24_P
PB_CLK_R24_N P20-14A 15A PB_CLK_R24_N
PB_CLK_L13_P P19-12B 16A PB_CLK_L13_P
PB_DAT_L24_N P19-13B 17A PB_DAT_L24_N
VS_CS_DV_L P18-21A 18A VS_CS_DV_L
VS_CS_PB_R24 P20-22A 19A VS_CS_PB_R24
VS_CLK P18-21B, P19-21B, P20-21B 20A VS_CLK
PB_L24_ENV P19-20B, P1-16B 21A PB_L24_ENV
AV_INT_L P9-19D 22A AV_INT_L
AV_ADRS9 P3-23A 23A AV_ADRS9
AV_ADRS6 P3-24A 24A AV_ADRS6
AV_ADRS3 P3-25A 25A AV_ADRS3
AV_ADRS0 P3-26A 26A AV_ADRS0
AV_RST_L P3-27A 27A AV_RST_L
AV_DATA5 P3-28A 28A AV_DATA5
AV_DATA2 P3-29A 29A AV_DATA2
+5V_1 30A +5V_1
-5V_1 31A -5V_1
GND 32A GND
P005
VJS3814
GND 1B GND
+12V 2B +12V
-12V 3B -12V
+7.5V 4B +7.5V
-7.5V 5B -7.5V
PB_DAT_L_N P9-11D 6B PB_DAT_L_N
PB_DAT_R_P P9-12C 7B PB_DAT_R_P
PB_CLK_R_N P9-13B 8B PB_CLK_R_N
PB_R13_ENV P20-20A, P1-17B 9B PB_R13_ENV
DV_DAT_L_N P18-12A 10B DV_DAT_L_N
DV_DAT_R_P P18-13A 11B DV_DAT_R_P
DV_CLK_R_N P18-14A 12B DV_CLK_R_N
PB_CLK_R13_P P20-12B 13B PB_CLK_R13_P
PB_DAT_R24_N P20-13B 14B PB_DAT_R24_N
PB_DAT_L13_P P19-11C 15B PB_DAT_L13_P
PB_CLK_L13_N P19-12C 16B PB_CLK_L13_N
PB_CLK_L24_P P19-13C 17B PB_CLK_L24_P
VS_CS_DV_R P18-22A 18B VS_CS_DV_R
VS_CS_PB_L13 P19-21A 19B VS_CS_PB_L13
VS_DAT P18-21C, P19-21C, P20-21C 20B VS_DAT
VS_CLK135 P18-22B, P19-22B, P20-22B 21B VS_CLK135
AV_CS_VIDEO_L P3-21B, P7-27A, P11-22B 22B AV_CS_VIDEO_L
AV_ADRS8 P3-23B 23B AV_ADRS8
AV_ADRS5 P3-24B 24B AV_ADRS5
AV_ADRS2 P3-25B 25B AV_ADRS2
AV_IORD_L P3-26B 26B AV_IORD_L
AV_DATA7 P3-27B 27B AV_DATA7
AV_DATA4 P3-28B 28B AV_DATA4
AV_DATA1 P3-29B 29B AV_DATA1
+5V_1 30B +5V_1
-5V_1 31B -5V_1
GND 32B GND
P005
VJS3814
GND 1C GND
+12V 2C +12V
-12V 3C -12V
+7.5V 4C +7.5V
-7.5V 5C -7.5V
PB_CLK_L_P P9-12A 6C PB_CLK_L_P
PB_DAT_R_N P9-12D 7C PB_DAT_R_N
DV_L_ENV P18-20A, P1-9C 8C DV_L_ENV
PB_R24_ENV P20-20B, P1-16C 9C PB_R24_ENV
DV_CLK_L_P P18-12B 10C DV_CLK_L_P
DV_DAT_R_N P18-13B 11C DV_DAT_R_N
PB_DAT_R13_P P20-12B 12C PB_DAT_R13_P
PB_CLK_R13_N P20-12A 13C PB_CLK_R13_N
PB_CLK_R24_P P20-13C 14C PB_CLK_R24_P
PB_DAT_L13_N P19-12A 15C PB_DAT_L13_N
PB_DAT_L24_P P19-13A 16C PB_DAT_L24_P
PB_CLK_L24_N P19-14A 17C PB_CLK_L24_N
VS_CS_PB_R13 P20-21A 18C VS_CS_PB_R13
VS_CS_PB_L24 P19-22A 19C VS_CS_PB_L24
PB_L13_ENV P19-20A, P1-17A 20C PB_L13_ENV
AV_BUSY_L P9-20D 21C AV_BUSY_L
AV_ADRS10 P3-22C 22C AV_ADRS10
AV_ADRS7 P3-23C 23C AV_ADRS7
AV_ADRS4 P3-24C 24C AV_ADRS4
AV_ADRS1 P3-25C 25C AV_ADRS1
AV_IOWR_L P3-26C 26C AV_IOWR_L
AV_DATA6 P3-27C 27C AV_DATA6
AV_DATA3 P3-28C 28C AV_DATA3
AV_DATA0 P3-29C 29C AV_DATA0
+5V_1 30C +5V_1
-5V_1 31C -5V_1
GND 32C GND
NON_TRK
P006
VJS3814
GND 1A GND
CLK18_NTRK_P P10-3A 2A CLK18_NTRK_P
TRP0 P1-15A 3A TRP0
FP_S0 P1-11A, P4-2B 4A FP_S0
DV_L_HSW P1-19B, P18-19A, P33-10A 5A DV_L_HSW
PB_R24_HSW P1-18C, P20-19B, P33-8B 6A PB_R24_HSW
SPA_PB_L13 P1-14B 7A SPA_PB_L13
SV_CYL_PG P2-3A 8A SV_CYL_PG
SLOW_H P1-14A 9A SLOW_H
CUE_REV_H P1-14C 10A CUE_REV_H
11A (PFP1)
AV_CS_NTRK_L P3-19B 12A AV_CS_NTRK_L
REC_FRP P10-15B 13A REC_FRP
PB_FR P10-8C 14A PB_FR
PB_CYL_PG P9-22B 15A PB_CYL_PG
NTRK_PB1 P10-20D 16A NTRK_PB1
NTRK_PB4 P10-29D 17A NTRK_PB4
PB_HID P10-20A 18A PB_HID
FEND_SYS P3-11A 19A FEND_SYS
AV_CS_DVSUB_L P9-18D 20A AV_CS_DVSUB_L
NTRK_SDI2 P7-23C 21A NTRK_SDI2
DVSUB_DIF_BUSY_L P8-25D 22A DVSUB_DIF_BUSY_L
DV_DIF_DATA0 P8-18A, P10-18A 23A DV_DIF_DATA0
DV_DIF_DATA3 P8-18D, P10-18D 24A DV_DIF_DATA3
DV_DIF_DATA6 P8-19C, P10-19C 25A DV_DIF_DATA6
DV_DIF_WR_L P8-20B, P10-21A 26A DV_DIF_WR_L
DV_DIF_ADRS2 P8-21D, P10-22D 27A DV_DIF_ADRS2
DV_DIF_ADRS5 P8-22C, P10-23C 28A DV_DIF_ADRS5
DV_DIF_ADRS8 P8-23B, P10-24B 29A DV_DIF_ADRS8
+3V 30A +3V
31A DON'T USE (+16V)
GND 32A GND
P006
VJS3814
GND 1B GND
CLK18_NTRK_N P10-3B 2B CLK18_NTRK_N
TRP1 P1-15B 3B TRP1
FP_S1 P1-11B, P4-2C 4B FP_S1
DV_R_HSW P1-19C, P18-19B, P33-10B 5B DV_R_HSW
PB_L13_HSW P1-17C, P19-19A, P33-9A 6B PB_L13_HSW
SPA_PB_L24 P1-12C 7B SPA_PB_L24
SV_CYL_FG P2-3B 8B SV_CYL_FG
LIN_H P1-13C 9B LIN_H
FLUSH P1-10B 10B FLUSH
REF_CF1 P12-27B, P10-5C 11B REF_CF1
12B
PB_FRP P10-14D, P18-19C, P19-19C, P20-19C 13B PB_FRP
PB_FF P10-7A 14B PB_FF
PB_CYL_FG P9-22C 15B PB_CYL_FG
NTRK_PB2 P10-26C 16B NTRK_PB2
CLK27_NTRK_P P10-4C 17B CLK27_NTRK_P
PB_L_HID P9-14A 18B PB_L_HID
AUD_FEND P14-20B 19B AUD_FEND
NTRK_SDI0 P7-23A 20B NTRK_SDI0
NTRK_SDI3 P7-23D 21B NTRK_SDI3
DVSUB_DIF_INT_L P8-25B 22B DVSUB_DIF_INT_L
DV_DIF_DATA1 P8-18B, P10-18B 23B DV_DIF_DATA1
DV_DIF_DATA4 P8-19A, P10-19A 24B DV_DIF_DATA4
DV_DIF_DATA7 P8-19D, P10-19D 25B DV_DIF_DATA7
DV_DIF_ADRS0 P8-21B, P10-22B 26B DV_DIF_ADRS0
DV_DIF_ADRS3 P8-22A, P10-23A 27B DV_DIF_ADRS3
DV_DIF_ADRS6 P8-22D, P10-23D 28B DV_DIF_ADRS6
DV_DIF_ADRS9 P8-23C, P10-24C 29B DV_DIF_ADRS9
+3V 30B +3V
31B DON'T USE (+16V)
GND 32B GND
P006
VJS3814
GND 1C GND
FEND P1-10C, P10-8D 2C FEND
TRP2 P1-15C 3C TRP2
TSR P1-16A 4C TSR
PB_L24_HSW P1-18A, P19-19B, P33-9B 5C PB_L24_HSW
PB_R13_HSW P1-18B, P20-19A, P33-8A 6C PB_R13_HSW
7C (SPA_DV_L12)
TXD_SV P1-20A, P7-21B, P9-23B 8C TXD_SV
TAPE_REV_H P2-2B, P4-12A, P14-5B 9C TAPE_REV_H
PFP0 P1-13A 10C PFP0
REF_CF2 P12-27C, P10-5D 11C REF_CF2
OUT_FRM P12-20A, P4-14C 12C OUT_FRM
PB_SLOW_H P9-16C 13C PB_SLOW_H
PB_FS P10-7B 14C PB_FS
NTRK_PB0 P10-20C 15C NTRK_PB0
NTRK_PB3 P10-29C 16C NTRK_PB3
CLK27_NTRK_N P10-4D 17C CLK27_NTRK_N
PB_R_HID P9-14B 18C PB_R_HID
PB_TAPE_REV_H P9-18A, P14-26B 19C PB_TAPE_REV_H
NTRK_SDI1 P7-23B 20C NTRK_SDI1
DIF_DVSUB_INT_L P8-25C 21C DIF_DVSUB_INT_L
DIF_DVSUB_CS_L P8-25A 22C DIF_DVSUB_CS_L
DV_DIF_DATA2 P8-18C, P10-18C 23C DV_DIF_DATA2
DV_DIF_DATA5 P8-19B, P10-19B 24C DV_DIF_DATA5
DV_DIF_RD_L P8-20A, P10-22A 25C DV_DIF_RD_L
DV_DIF_ADRS1 P8-21C, P10-22C 26C DV_DIF_ADRS1
DV_DIF_ADRS4 P8-22B, P10-23B 27C DV_DIF_ADRS4
DV_DIF_ADRS7 P8-23A, P10-24A 28C DV_DIF_ADRS7
DV_DIF_ADRS10 P8-23D, P10-24D 29C DV_DIF_ADRS10
+3V 30C +3V
31C DON'T USE (+16V)
GND 32C GND

KROL93(5/13)

COMPONENT NAME	MOTHER	05/13
CIRCUIT BOARD NO.		
VEP80A96A		
		SCM227

F4

SDI_MAIN


P007
VJS3510
GND 1A GND
+12V 2A +12V
-12V 3A -12V
+7.5V 4A +7.5V
-7.5V 5A -7.5V
6A
7A
8A
9A
OSD_STB P4-16C 10A S_STROBE
11A
12A
13A
14A
15A
PB_SDI0 P9-20A 16A PB_SDI0
I2CLK P4-13C, P11-21C 17A I2CLK
SYS_FRP P9-18B 18A SYS_FRP
SLW_CTL2 P9-19A, P12-29C 19A SLW_CTL2
20A
21A
CHAR_DATA_H P12-18B 22A CHAR_DATA_H
NTRK_SDI0 P6-20B 23A NTRK_SDI0
AV_CS_CSDI_L P4-12C 24A AV_CS_CSDI_L
AV_ADRS7 P3-23C 25A AV_ADRS7
AV_ADRS3 P3-25A 26A AV_ADRS3
AV_CS_VIDEO_L P3-21B, P5-22B, P11-22B 27A AV_CS_VIDEO_L
AV_DATA7 P3-27B 28A AV_DATA7
AV_DATA3 P3-28C 29A AV_DATA3
+5V_1 30A +5V_1
-5V_1 31A -5V_1
GND 32A GND
P007
VJS3510
GND 1B GND
+12V 2B +12V
-12V 3B -12V
+7.5V 4B +7.5V
-7.5V 5B -7.5V
6B
7B
8B
9B
OSD_CLK P4-16A 10B S_CLK
11B
12B
13B
14B
15B
PB_SDI1 P9-20B 16B PB_SDI1
I2DATA P4-14A, P11-22A 17B I2DATA
18B
SLW_CTL1 P9-19B, P12-29B 19B SLW_CTL1
20B
TXD_SV P1-20A, P6-8C, P9-23B 21B TXD_SV
CHAR_GATE_L P12-18C 22B CHAR_GATE_L
NTRK_SDI1 P6-20C 23B NTRK_SDI1
AV_ADRS10 P3-22C 24B AV_ADRS10
AV_ADRS6 P3-24A 25B AV_ADRS6
AV_ADRS2 P3-25B 26B AV_ADRS2
AV_IORD_L P3-26B 27B AV_IORD_L
AV_DATA6 P3-27C 28B AV_DATA6
AV_DATA2 P3-29A 29B AV_DATA2
+5V_1 30B +5V_1
-5V_1 31B -5V_1
GND 32B GND
P007
VJS3510
GND 1C GND
+12V 2C +12V
-12V 3C -12V
+7.5V 4C +7.5V
-7.5V 5C -7.5V
6C
7C
8C
9C
OSD_DATA P4-16B 10C S_DATA
11C
12C
13C
14C
15C
PB_SDI2 P9-18C 16C PB_SDI2
SEAM_MOD5_0 P9-14C, P11-16C 17C SEAM_MOD5_0
18C
SLW_CTL0 P9-19C, P12-29A 19C SLW_CTL0
DIF_CLK18 P9-20C 20C DIF_CLK18
21C
RXD_SV P1-20B, P9-23A 22C RXD_SV
NTRK_SDI2 P6-21A 23C NTRK_SDI2
AV_ADRS9 P3-23A 24C AV_ADRS9
AV_ADRS5 P3-24B 25C AV_ADRS5
AV_ADRS1 P3-25C 26C AV_ADRS1
AV_IOWR_L P3-26C 27C AV_IOWR_L
AV_DATA5 P3-28A 28C AV_DATA5
AV_DATA1 P3-29B 29C AV_DATA1
+5V_1 30C +5V_1
-5V_1 31C -5V_1
GND 32C GND
P007
VJS3510
GND 1D GND
+12V 2D +12V
-12V 3D -12V
+7.5V 4D +7.5V
-7.5V 5D -7.5V
6D
7D
8D
9D
10D
11D
12D
13D
14D
15D
PB_SDI3 P9-16D 16D PB_SDI3
SEAM_MOD5_1 P9-14D, P11-16B 17D SEAM_MOD5_1
18D
19D
20D
21D
22D
NTRK_SDI3 P6-21B 23D NTRK_SDI3
AV_ADRS8 P3-23B 24D AV_ADRS8
AV_ADRS4 P3-24C 25D AV_ADRS4
AV_ADRS0 P3-26A 26D AV_ADRS0
AV_RST_L P3-27A 27D AV_RST_L
AV_DATA4 P3-28B 28D AV_DATA4
AV_DATA0 P3-29C 29D AV_DATA0
+5V_1 30D +5V_1
-5V_1 31D -5V_1
GND 32D GND
P008
VJS3510
GND 1A GND
SDI_MOUT0 P12-2A 2A SDI_MOUT0
SDI_MOUT4 P12-3B 3A SDI_MOUT4
SDI_MOUT8 P12-4C 4A SDI_MOUT8
SDI_SOUT2 P12-6A 5A SDI_SOUT2 (420P)
SDI_SOUT6 P12-7B 6A SDI_SOUT6 (420P)
SDI_27P P10-6C 7A SDI_27P
SDI_HD P12-16A 8A SDI_HD
9A
10A
11A
12A
13A
14A
DIF_FRP P10-15A 15A DIF_FRP
DIF_BUS_P0 P10-16A 16A DIF_BUS_P0
DIF_BUS_P4 P10-17A 17A DIF_BUS_P4
DV_DIF_DATA0 P6-23A, P10-18A 18A DV_DIF_DATA0
DV_DIF_DATA4 P6-24B, P10-19A 19A DV_DIF_DATA4
DV_DIF_RD_L P6-25C, P10-22A 20A DV_DIF_RD_L
21A
DV_DIF_ADRS3 P6-27B, P10-23A 22A DV_DIF_ADRS3
DV_DIF_ADRS7 P6-28C, P10-24A 23A DV_DIF_ADRS7
DIF_DVMAIN_CS_L P10-25A 24A DIF_DVMAIN_CS_L
DIF_DVSUB_CS_L P6-22C 25A DIF_DVSUB_CS_L
26A
S_PB_AUD12 P14-11A 27A S_PB_AUD12
DAUDCK_P P14-12B 28A DAUDCK_P
SDI_CS P12-24B 29A SDI_CS
+3V 30A +3V
+5V_1 31A +5V_1
GND 32A GND
P008
VJS3510
GND 1B GND
SDI_MOUT1 P12-2B 2B SDI_MOUT1
SDI_MOUT5 P12-3C 3B SDI_MOUT5
SDI_MOUT9 P12-5A 4B SDI_MOUT9
SDI_SOUT3 P12-6B 5B SDI_SOUT3 (420P)
SDI_SOUT7 P12-7C 6B SDI_SOUT7 (420P)
SDI_27N P10-6D 7B SDI_27N
SDI_VD P12-17A 8B SDI_VD
9B
10B
11B
12B
13B
14B
15B
DIF_BUS_P1 P10-16B 16B DIF_BUS_P1
DIF_BUS_P5 P10-17B 17B DIF_BUS_P5
DV_DIF_DATA1 P6-23B, P10-18B 18B DV_DIF_DATA1
DV_DIF_DATA5 P6-24C, P10-19B 19B DV_DIF_DATA5
DV_DIF_WR_L P6-26A, P10-21A 20B DV_DIF_WR_L
DV_DIF_ADRS0 P6-26B, P10-22B 21B DV_DIF_ADRS0
DV_DIF_ADRS4 P6-27C, P10-23B 22B DV_DIF_ADRS4
DV_DIF_ADRS8 P6-29A, P10-24B 23B DV_DIF_ADRS8
DIF_DVMAIN_INT_L P10-25B 24B DIF_DVMAIN_INT_L
DVSUB_DIF_INT_L P6-22B 25B DVSUB_DIF_INT_L
26B
S_PB_AUD12_G P14-11B 27B S_PB_AUD12_G
DAUDCK_N P14-12C 28B DAUDCK_N
29B
+3V 30B +3V
+5V_1 31B +5V_1
GND 32B GND
P008
VJS3510
GND 1C GND
SDI_MOUT2 P12-2C 2C SDI_MOUT2
SDI_MOUT6 P12-4A 3C SDI_MOUT6
SDI_SOUT0 P12-5B 4C SDI_SOUT0 (420P)
SDI_SOUT4 P12-6C 5C SDI_SOUT4 (420P)
SDI_SOUT8 P12-8A 6C SDI_SOUT8 (420P)
SDI_FRM P12-15C 7C SDI_FRM
8C
9C
10C
11C
12C
13C
14C
DIF_SSP_P P10-15C 15C DIF_SSP_P
DIF_BUS_P2 P10-16C 16C DIF_BUS_P2
DIF_BUS_P6 P10-17C 17C DIF_BUS_P6
DV_DIF_DATA2 P6-23C, P10-18C 18C DV_DIF_DATA2
DV_DIF_DATA6 P6-25A, P10-19C 19C DV_DIF_DATA6
20C
DV_DIF_ADRS1 P6-26C, P10-22C 21C DV_DIF_ADRS1
DV_DIF_ADRS5 P6-28A, P10-23C 22C DV_DIF_ADRS5
DV_DIF_ADRS9 P6-29B, P10-24C 23C DV_DIF_ADRS9
DVMAIN_DIF_INT_L P10-25C 24C DVMAIN_DIF_INT_L
DIF_DVSUB_INT_L P6-21C 25C DIF_DVSUB_INT_L
26C
S_PB_AUD34 P14-11C 27C S_PB_AUD34
SDI_4FSC_P P12-23B 28C SDI_4FSC_P
29C
+3V 30C +3V
+5V_1 31C +5V_1
GND 32C GND
P008
VJS3510
GND 1D GND
SDI_MOUT3 P12-3A 2D SDI_MOUT3
SDI_MOUT7 P12-4B 3D SDI_MOUT7
SDI_SOUT1 P12-5C 4D SDI_SOUT1 (420P)
SDI_SOUT5 P12-7A 5D SDI_SOUT5 (420P)
SDI_SOUT9 P12-8B 6D SDI_SOUT9 (420P)
SDI_CF P12-16B 7D SDI_CF
8D
9D
10D
11D
12D
13D
14D
DIF_SMP_P P10-15D 15D DIF_SMP_P
DIF_BUS_P3 P10-16D 16D DIF_BUS_P3
DIF_BUS_P7 P10-17D 17D DIF_BUS_P7
DV_DIF_DATA3 P6-24A, P10-18D 18D DV_DIF_DATA3
DV_DIF_DATA7 P6-25B, P10-19D 19D DV_DIF_DATA7
20D
DV_DIF_ADRS2 P6-27A, P10-22D 21D DV_DIF_ADRS2
DV_DIF_ADRS6 P6-28B, P10-23D 22D DV_DIF_ADRS6
DV_DIF_ADRS10 P6-29C, P10-24D 23D DV_DIF_ADRS10
DVMAIN_DIF_BUSY_L P10-25D 24D DVMAIN_DIF_BUSY_L
DVSUB_DIF_BUSY_L P6-22A 25D DVSUB_DIF_BUSY_L
26D
S_PB_AUD34_G P14-12A 27D S_PB_AUD34_G
SDI_4FSC_N P12-23C 28D SDI_4FSC_N
29D
+3V 30D +3V
+5V_1 31D +5V_1
GND 32D GND

COMPONENT NAME	MOTHER	06/13
CIRCUIT BOARD NO.		
VEP80A96A		
		SCM228

KROL93(6/13)

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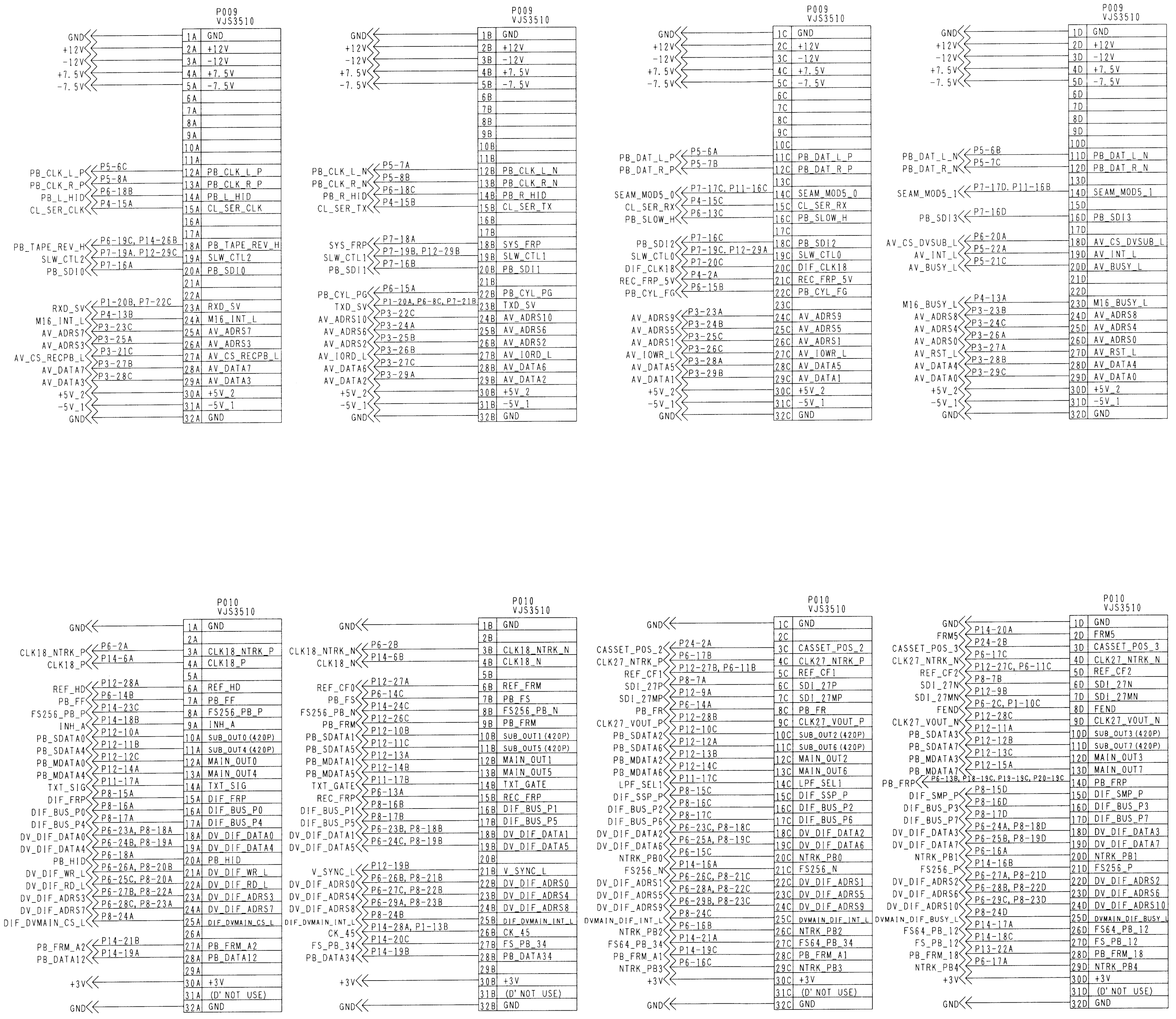
PB


P009
VJS3510
GND 1A GND
+12V 2A +12V
-12V 3A -12V
+7.5V 4A +7.5V
-7.5V 5A -7.5V
6A
7A
8A
9A
10A
11A
PB_CLK_L_P P5-6C 12A PB_CLK_L_P
PB_CLK_R_P P5-8A 13A PB_CLK_R_P
PB_L_HID P6-18B 14A PB_L_HID
CL_SER_CLK P4-15A 15A CL_SER_CLK
16A
17A
PB_TAPE_REV_H P6-19C, P14-26B 18A PB_TAPE_REV_H
SLW_CTL2 P7-19A, P12-29C 19A SLW_CTL2
PB_SDI0 P7-16A 20A PB_SDI0
21A
22A
RXD_SV P1-20B, P7-22C 23A RXD_SV
M16_INT_L P4-13B 24A M16_INT_L
AV_ADRS7 P3-23C 25A AV_ADRS7
AV_ADRS3 P3-25A 26A AV_ADRS3
AV_CS_RECPB_L P3-21C 27A AV_CS_RECPB_L
AV_DATA7 P3-27B 28A AV_DATA7
AV_DATA3 P3-28C 29A AV_DATA3
+5V_2 30A +5V_2
-5V_1 31A -5V_1
GND 32A GND
P009
VJS3510
GND 1B GND
+12V 2B +12V
-12V 3B -12V
+7.5V 4B +7.5V
-7.5V 5B -7.5V
6B
7B
8B
9B
10B
11B
PB_CLK_L_N P5-7A 12B PB_CLK_L_N
PB_CLK_R_N P5-8B 13B PB_CLK_R_N
PB_R_HID P6-18C 14B PB_R_HID
CL_SER_TX P4-15B 15B CL_SER_TX
16B
17B
SYS_FRP P7-18A 18B SYS_FRP
SLW_CTL1 P7-19B, P12-29B 19B SLW_CTL1
PB_SDI1 P7-16B 20B PB_SDI1
21B
PB_CYL_PG P6-15A 22B PB_CYL_PG
TXD_SV P1-20A, P6-8C, P7-21B 23B TXD_SV
AV_ADRS10 P3-22C 24B AV_ADRS10
AV_ADRS6 P3-24A 25B AV_ADRS6
AV_ADRS2 P3-25B 26B AV_ADRS2
AV_IORD_L P3-26B 27B AV_IORD_L
AV_DATA6 P3-27C 28B AV_DATA6
AV_DATA2 P3-29A 29B AV_DATA2
+5V_2 30B +5V_2
-5V_1 31B -5V_1
GND 32B GND
P009
VJS3510
GND 1C GND
+12V 2C +12V
-12V 3C -12V
+7.5V 4C +7.5V
-7.5V 5C -7.5V
6C
7C
8C
9C
10C
PB_DAT_L_P P5-6A 11C PB_DAT_L_P
PB_DAT_R_P P5-7B 12C PB_DAT_R_P
13C
SEAM_MOD5_0 P7-17C, P11-16C 14C SEAM_MOD5_0
CL_SER_RX P4-15C 15C CL_SER_RX
PB_SLOW_H P6-13C 16C PB_SLOW_H
17C
PB_SDI2 P7-16C 18C PB_SDI2
SLW_CTL0 P7-19C, P12-29A 19C SLW_CTL0
DIF_CLK18 P7-20C 20C DIF_CLK18
REC_FRP_5V P4-2A 21C REC_FRP_5V
PB_CYL_FG P6-15B 22C PB_CYL_FG
23C
AV_ADRS9 P3-23A 24C AV_ADRS9
AV_ADRS5 P3-24B 25C AV_ADRS5
AV_ADRS1 P3-25C 26C AV_ADRS1
AV_IOWR_L P3-26C 27C AV_IOWR_L
AV_DATA5 P3-28A 28C AV_DATA5
AV_DATA1 P3-29B 29C AV_DATA1
+5V_2 30C +5V_2
-5V_1 31C -5V_1
GND 32C GND
P009
VJS3510
GND 1D GND
+12V 2D +12V
-12V 3D -12V
+7.5V 4D +7.5V
-7.5V 5D -7.5V
6D
7D
8D
9D
10D
PB_DAT_L_N P5-6B 11D PB_DAT_L_N
PB_DAT_R_N P5-7C 12D PB_DAT_R_N
13D
SEAM_MOD5_1 P7-17D, P11-16B 14D SEAM_MOD5_1
15D
PB_SDI3 P7-16D 16D PB_SDI3
17D
AV_CS_DVSUB_L P6-20A 18D AV_CS_DVSUB_L
AV_INT_L P5-22A 19D AV_INT_L
AV_BUSY_L P5-21C 20D AV_BUSY_L
21D
22D
M16_BUSY_L P4-13A 23D M16_BUSY_L
AV_ADRS8 P3-23B 24D AV_ADRS8
AV_ADRS4 P3-24C 25D AV_ADRS4
AV_ADRS0 P3-26A 26D AV_ADRS0
AV_RST_L P3-27A 27D AV_RST_L
AV_DATA4 P3-28B 28D AV_DATA4
AV_DATA0 P3-29C 29D AV_DATA0
+5V_2 30D +5V_2
-5V_1 31D -5V_1
GND 32D GND
P010
VJS3510
GND 1A GND
2A
CLK18_NTRK_P P6-2A 3A CLK18_NTRK_P
CLK18_P P14-6A 4A CLK18_P
5A
REF_HD P12-28A 6A REF_HD
PB_FF P6-14B 7A PB_FF
FS256_PB_P P14-23C 8A FS256_PB_P
INH_A P14-18B 9A INH_A
PB_SDATA0 P12-10A 10A SUB_OUT0 (420P)
PB_SDATA4 P12-11B 11A SUB_OUT4 (420P)
PB_MDATA0 P12-12C 12A MAIN_OUT0
PB_MDATA4 P12-14A 13A MAIN_OUT4
TXT_SIG P11-17A 14A TXT_SIG
DIF_FRP P8-15A 15A DIF_FRP
DIF_BUS_P0 P8-16A 16A DIF_BUS_P0
DIF_BUS_P4 P8-17A 17A DIF_BUS_P4
DV_DIF_DATA0 P6-23A, P8-18A 18A DV_DIF_DATA0
DV_DIF_DATA4 P6-24B, P8-19A 19A DV_DIF_DATA4
PB_HID P6-18A 20A PB_HID
DV_DIF_WR_L P6-26A, P8-20B 21A DV_DIF_WR_L
DV_DIF_RD_L P6-25C, P8-20A 22A DV_DIF_RD_L
DV_DIF_ADRS3 P6-27B, P8-22A 23A DV_DIF_ADRS3
DV_DIF_ADRS7 P6-28C, P8-23A 24A DV_DIF_ADRS7
DIF_DVMAIN_CS_L P8-24A 25A DIF_DVMAIN_CS_L
26A
PB_FRM_A2 P14-21B 27A PB_FRM_A2
PB_DATA12 P14-19A 28A PB_DATA12
29A
+3V 30A +3V
31A (D' NOT USE)
GND 32A GND
P010
VJS3510
GND 1B GND
2B
CLK18_NTRK_N P6-2B 3B CLK18_NTRK_N
CLK18_N P14-6B 4B CLK18_N
5B
REF_CF0 P12-27A 6B REF_FRM
PB_FS P6-14C 7B PB_FS
FS256_PB_N P14-24C 8B FS256_PB_N
PB_FRM P12-26C 9B PB_FRM
PB_SDATA1 P12-10B 10B SUB_OUT1 (420P)
PB_SDATA5 P12-11C 11B SUB_OUT5 (420P)
PB_MDATA1 P12-13A 12B MAIN_OUT1
PB_MDATA5 P12-14B 13B MAIN_OUT5
TXT_GATE P11-17B 14B TXT_GATE
REC_FRP P6-13A 15B REC_FRP
DIF_BUS_P1 P8-16B 16B DIF_BUS_P1
DIF_BUS_P5 P8-17B 17B DIF_BUS_P5
DV_DIF_DATA1 P6-23B, P8-18B 18B DV_DIF_DATA1
DV_DIF_DATA5 P6-24C, P8-19B 19B DV_DIF_DATA5
20B
V_SYNC_L P12-19B 21B V_SYNC_L
DV_DIF_ADRS0 P6-26B, P8-21B 22B DV_DIF_ADRS0
DV_DIF_ADRS4 P6-27C, P8-22B 23B DV_DIF_ADRS4
DV_DIF_ADRS8 P6-29A, P8-23B 24B DV_DIF_ADRS8
DIF_DVMAIN_INT_L P8-24B 25B DIF_DVMAIN_INT_L
CK_45 P14-28A, P1-13B 26B CK_45
FS_PB_34 P14-20C 27B FS_PB_34
PB_DATA34 P14-19B 28B PB_DATA34
29B
+3V 30B +3V
31B (D' NOT USE)
GND 32B GND
P010
VJS3510
GND 1C GND
2C
CASSET_POS_2 P24-2A 3C CASSET_POS_2
CLK27_NTRK_P P6-17B 4C CLK27_NTRK_P
REF_CF1 P12-27B, P6-11B 5C REF_CF1
SDI_27P P8-7A 6C SDI_27P
SDI_27MP P12-9A 7C SDI_27MP
PB_FR P6-14A 8C PB_FR
CLK27_VOUT_P P12-28B 9C CLK27_VOUT_P
PB_SDATA2 P12-10C 10C SUB_OUT2 (420P)
PB_SDATA6 P12-12A 11C SUB_OUT6 (420P)
PB_MDATA2 P12-13B 12C MAIN_OUT2
PB_MDATA6 P12-14C 13C MAIN_OUT6
LPF_SEL1 P11-17C 14C LPF_SEL1
DIF_SSP_P P8-15C 15C DIF_SSP_P
DIF_BUS_P2 P8-16C 16C DIF_BUS_P2
DIF_BUS_P6 P8-17C 17C DIF_BUS_P6
DV_DIF_DATA2 P6-23C, P8-18C 18C DV_DIF_DATA2
DV_DIF_DATA6 P6-25A, P8-19C 19C DV_DIF_DATA6
NTRK_PB0 P6-15C 20C NTRK_PB0
FS256_N P14-16A 21C FS256_N
DV_DIF_ADRS1 P6-26C, P8-21C 22C DV_DIF_ADRS1
DV_DIF_ADRS5 P6-28A, P8-22C 23C DV_DIF_ADRS5
DV_DIF_ADRS9 P6-29B, P8-23C 24C DV_DIF_ADRS9
DVMAIN_DIF_INT_L P8-24C 25C DVMAIN_DIF_INT_L
NTRK_PB2 P6-16B 26C NTRK_PB2
FS64_PB_34 P14-21A 27C FS64_PB_34
PB_FRM_A1 P14-19C 28C PB_FRM_A1
NTRK_PB3 P6-16C 29C NTRK_PB3
+3V 30C +3V
31C (D' NOT USE)
GND 32C GND
P010
VJS3510
GND 1D GND
FRM5 P14-20A 2D FRM5
CASSET_POS_3 P24-2B 3D CASSET_POS_3
CLK27_NTRK_N P6-17C 4D CLK27_NTRK_N
REF_CF2 P12-27C, P6-11C 5D REF_CF2
SDI_27N P8-7B 6D SDI_27N
SDI_27MN P12-9B 7D SDI_27MN
FEND P6-2C, P1-10C 8D FEND
CLK27_VOUT_N P12-28C 9D CLK27_VOUT_N
PB_SDATA3 P12-11A 10D SUB_OUT3 (420P)
PB_SDATA7 P12-12B 11D SUB_OUT7 (420P)
PB_MDATA3 P12-13C 12D MAIN_OUT3
PB_MDATA7 P12-15A 13D MAIN_OUT7
PB_FRP P6-13B, P18-19C, P19-19C, P20-19C 14D PB_FRP
DIF_SMP_P P8-15D 15D DIF_SMP_P
DIF_BUS_P3 P8-16D 16D DIF_BUS_P3
DIF_BUS_P7 P8-17D 17D DIF_BUS_P7
DV_DIF_DATA3 P6-24A, P8-18D 18D DV_DIF_DATA3
DV_DIF_DATA7 P6-25B, P8-19D 19D DV_DIF_DATA7
NTRK_PB1 P6-16A 20D NTRK_PB1
FS256_P P14-16B 21D FS256_P
DV_DIF_ADRS2 P6-27A, P8-21D 22D DV_DIF_ADRS2
DV_DIF_ADRS6 P6-28B, P8-22D 23D DV_DIF_ADRS6
DV_DIF_ADRS10 P6-29C, P8-23D 24D DV_DIF_ADRS10
DVMAIN_DIF_BUSY_L P8-24D 25D DVMAIN_DIF_BUSY_L
FS64_PB_12 P14-17A 26D FS64_PB_12
FS_PB_12 P14-18C 27D FS_PB_12
PB_FRM_18 P13-22A 28D PB_FRM_18
NTRK_PB4 P6-17A 29D NTRK_PB4
+3V 30D +3V
31D (D' NOT USE)
GND 32D GND

KROL93(7/13)

COMPONENT NAME	MOTHER	07/13
CIRCUIT BOARD NO.		
VEP80A96A		
		SCM229

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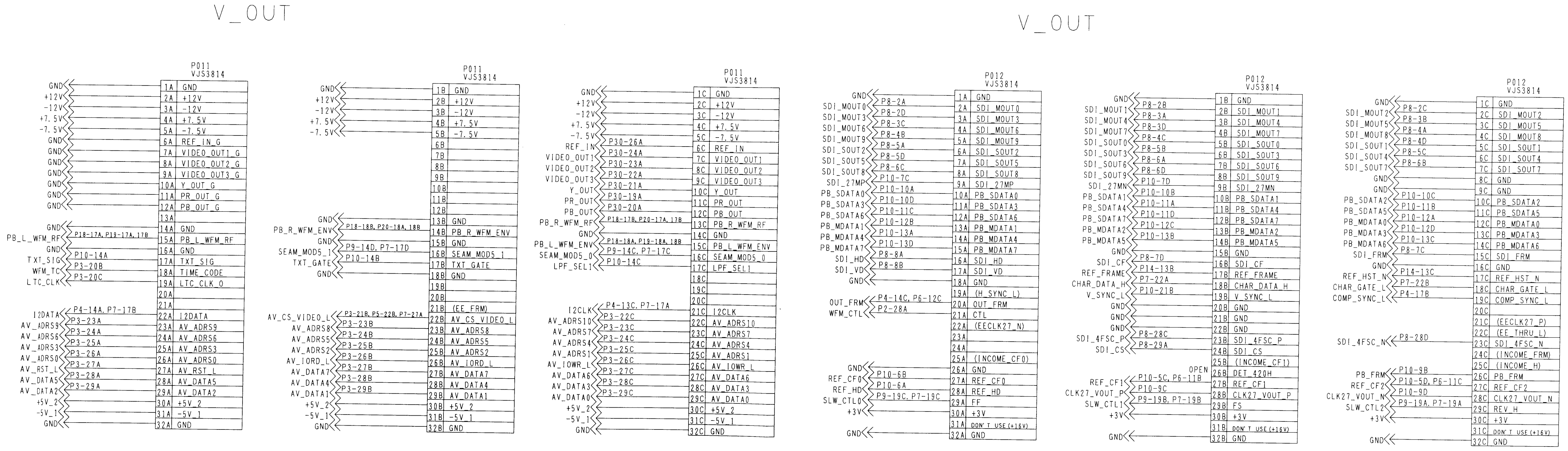
V_OUT
P011
VJS3814
GND 1A GND
+12V 2A +12V
-12V 3A -12V
+7.5V 4A +7.5V
-7.5V 5A -7.5V
GND 6A REF_IN_G
GND 7A VIDEO_OUT1_G
GND 8A VIDEO_OUT2_G
GND 9A VIDEO_OUT3_G
GND 10A Y_OUT_G
GND 11A PR_OUT_G
GND 12A PB_OUT_G
13A
GND 14A GND
PB_L_WFM_RF P18-17A, P19-17A, 17B 15A PB_L_WFM_RF
GND 16A GND
TXT_SIG P10-14A 17A TXT_SIG
WFM_TC P3-20B 18A TIME_CODE
LTC_CLK P3-20C 19A LTC_CLK_0
20A
21A
I2DATA P4-14A, P7-17B 22A I2DATA
AV_ADRS9 P3-23A 23A AV_ADRS9
AV_ADRS6 P3-24A 24A AV_ADRS6
AV_ADRS3 P3-25A 25A AV_ADRS3
AV_ADRS0 P3-26A 26A AV_ADRS0
AV_RST_L P3-27A 27A AV_RST_L
AV_DATA5 P3-28A 28A AV_DATA5
AV_DATA2 P3-29A 29A AV_DATA2
+5V_2 30A +5V_2
-5V_1 31A -5V_1
GND 32A GND
P011
VJS3814
GND 1B GND
+12V 2B +12V
-12V 3B -12V
+7.5V 4B +7.5V
-7.5V 5B -7.5V
6B
7B
8B
9B
10B
11B
12B
GND 13B GND
PB_R_WFM_ENV P18-18B, P20-18A, 18B 14B PB_R_WFM_ENV
GND 15B GND
SEAM_MOD5_1 P9-14D, P7-17D 16B SEAM_MOD5_1
TXT_GATE P10-14B 17B TXT_GATE
GND 18B GND
19B
20B
21B (EE_FRM)
AV_CS_VIDEO_L P3-21B, P5-22B, P7-27A 22B AV_CS_VIDEO_L
AV_ADRS8 P3-23B 23B AV_ADRS8
AV_ADRS5 P3-24B 24B AV_ADRS5
AV_ADRS2 P3-25B 25B AV_ADRS2
AV_IORD_L P3-26B 26B AV_IORD_L
AV_DATA7 P3-27B 27B AV_DATA7
AV_DATA4 P3-28B 28B AV_DATA4
AV_DATA1 P3-29B 29B AV_DATA1
+5V_2 30B +5V_2
-5V_1 31B -5V_1
GND 32B GND
P011
VJS3814
GND 1C GND
+12V 2C +12V
-12V 3C -12V
+7.5V 4C +7.5V
-7.5V 5C -7.5V
REF_IN P30-26A 6C REF_IN
VIDEO_OUT1 P30-24A 7C VIDEO_OUT1
VIDEO_OUT2 P30-23A 8C VIDEO_OUT2
VIDEO_OUT3 P30-22A 9C VIDEO_OUT3
Y_OUT P30-21A 10C Y_OUT
PR_OUT P30-19A 11C PR_OUT
PB_OUT P30-20A 12C PB_OUT
PB_R_WFM_RF P18-17B, P20-17A, 17B 13C PB_R_WFM_RF
GND 14C GND
PB_L_WFM_ENV P18-18A, P19-18A, 18B 15C PB_L_WFM_ENV
SEAM_MOD5_0 P9-14C, P7-17C 16C SEAM_MOD5_0
LPF_SEL1 P10-14C 17C LPF_SEL1
18C
19C
20C
I2CLK P4-13C, P7-17A 21C I2CLK
AV_ADRS10 P3-22C 22C AV_ADRS10
AV_ADRS7 P3-23C 23C AV_ADRS7
AV_ADRS4 P3-24C 24C AV_ADRS4
AV_ADRS1 P3-25C 25C AV_ADRS1
AV_IOWR_L P3-26C 26C AV_IOWR_L
AV_DATA6 P3-27C 27C AV_DATA6
AV_DATA3 P3-28C 28C AV_DATA3
AV_DATA0 P3-29C 29C AV_DATA0
+5V_2 30C +5V_2
-5V_1 31C -5V_1
GND 32C GND
V_OUT
P012
VJS3814
GND 1A GND
SDI_MOUT0 P8-2A 2A SDI_MOUT0
SDI_MOUT3 P8-2D 3A SDI_MOUT3
SDI_MOUT6 P8-3C 4A SDI_MOUT6
SDI_MOUT9 P8-4B 5A SDI_MOUT9
SDI_SOUT2 P8-5A 6A SDI_SOUT2
SDI_SOUT5 P8-5D 7A SDI_SOUT5
SDI_SOUT8 P8-6C 8A SDI_SOUT8
SDI_27MP P10-7C 9A SDI_27MP
PB_SDATA0 P10-10A 10A PB_SDATA0
PB_SDATA3 P10-10D 11A PB_SDATA3
PB_SDATA6 P10-11C 12A PB_SDATA6
PB_MDATA1 P10-12B 13A PB_MDATA1
PB_MDATA4 P10-13A 14A PB_MDATA4
PB_MDATA7 P10-13D 15A PB_MDATA7
SDI_HD P8-8A 16A SDI_HD
SDI_VD P8-8B 17A SDI_VD
GND 18A GND
19A (H_SYNC_L)
OUT_FRM P4-14C, P6-12C 20A OUT_FRM
WFM_CTL P2-28A 21A CTL
22A (EECLK27_N)
23A
24A
25A (INCOME_CF0)
GND 26A GND
REF_CF0 P10-6B 27A REF_CF0
REF_HD P10-6A 28A REF_HD
SLW_CTL0 P9-19C, P7-19C 29A FF
+3V 30A +3V
31A DON'T USE (+16V)
GND 32A GND
P012
VJS3814
GND 1B GND
SDI_MOUT1 P8-2B 2B SDI_MOUT1
SDI_MOUT4 P8-3A 3B SDI_MOUT4
SDI_MOUT7 P8-3D 4B SDI_MOUT7
SDI_SOUT0 P8-4C 5B SDI_SOUT0
SDI_SOUT3 P8-5B 6B SDI_SOUT3
SDI_SOUT6 P8-6A 7B SDI_SOUT6
SDI_SOUT9 P8-6D 8B SDI_SOUT9
SDI_27MN P10-7D 9B SDI_27MN
PB_SDATA1 P10-10B 10B PB_SDATA1
PB_SDATA4 P10-11A 11B PB_SDATA4
PB_SDATA7 P10-11D 12B PB_SDATA7
PB_MDATA2 P10-12C 13B PB_MDATA2
PB_MDATA5 P10-13B 14B PB_MDATA5
GND 15B GND
SDI_CF P8-7D 16B SDI_CF
REF_FRAME P14-13B 17B REF_FRAME
CHAR_DATA_H P7-22A 18B CHAR_DATA_H
V_SYNC_L P10-21B 19B V_SYNC_L
GND 20B GND
GND 21B GND
GND 22B GND
SDI_4FSC_P P8-28C 23B SDI_4FSC_P
SDI_CS P8-29A 24B SDI_CS
25B (INCOME_CF1)
OPEN 26B DET_420H
REF_CF1 P10-5C, P6-11B 27B REF_CF1
CLK27_VOUT_P P10-9C 28B CLK27_VOUT_P
SLW_CTL1 P9-19B, P7-19B 29B FS
+3V 30B +3V
31B DON'T USE (+16V)
GND 32B GND
P012
VJS3814
GND 1C GND
SDI_MOUT2 P8-2C 2C SDI_MOUT2
SDI_MOUT5 P8-3B 3C SDI_MOUT5
SDI_MOUT8 P8-4A 4C SDI_MOUT8
SDI_SOUT1 P8-4D 5C SDI_SOUT1
SDI_SOUT4 P8-5C 6C SDI_SOUT4
SDI_SOUT7 P8-6B 7C SDI_SOUT7
GND 8C GND
GND 9C GND
PB_SDATA2 P10-10C 10C PB_SDATA2
PB_SDATA5 P10-11B 11C PB_SDATA5
PB_MDATA0 P10-12A 12C PB_MDATA0
PB_MDATA3 P10-12D 13C PB_MDATA3
PB_MDATA6 P10-13C 14C PB_MDATA6
SDI_FRM P8-7C 15C SDI_FRM
GND 16C GND
REF_HST_N P14-13C 17C REF_HST_N
CHAR_GATE_L P7-22B 18C CHAR_GATE_L
COMP_SYNC_L P4-17B 19C COMP_SYNC_L
20C
21C (EECLK27_P)
22C (EE_THRU_L)
SDI_4FSC_N P8-28D 23C SDI_4FSC_N
24C (INCOME_FRM)
25C (INCOME_H)
PB_FRM P10-9B 26C PB_FRM
REF_CF2 P10-5D, P6-11C 27C REF_CF2
CLK27_VOUT_N P10-9D 28C CLK27_VOUT_N
SLW_CTL2 P9-19A, P7-19A 29C REV_H
+3V 30C +3V
31C DON'T USE (+16V)
GND 32C GND

COMPONENT NAME	MOTHER	08/13
CIRCUIT BOARD NO.		
VEP80A96A		
		SCM230

KROL93(8/13)

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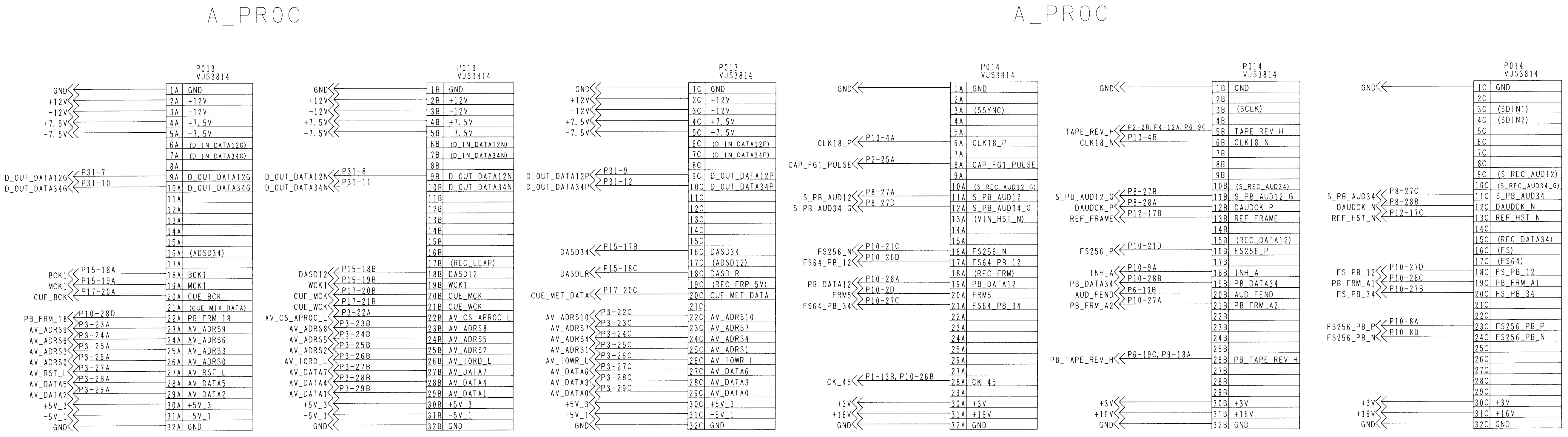
A_PROC
A_PROC
P013
VJS3814
1A GND
2A +12V
3A -12V
4A +7.5V
5A -7.5V
6A (D_IN_DATA12G)
7A (D_IN_DATA34G)
8A
9A D_OUT_DATA12G
10A D_OUT_DATA34G
11A
12A
13A
14A
15A
16A (ADSD34)
17A
18A BCK1
19A MCK1
20A CUE_BCK
21A (CUE_MIX_DATA)
22A PB_FRM_18
23A AV_ADRS9
24A AV_ADRS6
25A AV_ADRS3
26A AV_ADRS0
27A AV_RST_L
28A AV_DATA5
29A AV_DATA2
30A +5V_3
31A -5V_1
32A GND
GND
+12V
-12V
+7.5V
-7.5V
D_OUT_DATA12G P31-7
D_OUT_DATA34G P31-10
BCK1 P15-18A
MCK1 P15-19A
CUE_BCK P17-20A
PB_FRM_18 P10-28D
AV_ADRS9 P3-23A
AV_ADRS6 P3-24A
AV_ADRS3 P3-25A
AV_ADRS0 P3-26A
AV_RST_L P3-27A
AV_DATA5 P3-28A
AV_DATA2 P3-29A
+5V_3
-5V_1
GND
P013
VJS3814
1B GND
2B +12V
3B -12V
4B +7.5V
5B -7.5V
6B (D_IN_DATA12N)
7B (D_IN_DATA34N)
8B
9B D_OUT_DATA12N
10B D_OUT_DATA34N
11B
12B
13B
14B
15B
16B
17B (REC_LEAP)
18B DASD12
19B WCK1
20B CUE_MCK
21B CUE_WCK
22B AV_CS_APROC_L
23B AV_ADRS8
24B AV_ADRS5
25B AV_ADRS2
26B AV_IORD_L
27B AV_DATA7
28B AV_DATA4
29B AV_DATA1
30B +5V_3
31B -5V_1
32B GND
GND
+12V
-12V
+7.5V
-7.5V
D_OUT_DATA12N P31-8
D_OUT_DATA34N P31-11
DASD12 P15-18B
WCK1 P15-19B
CUE_MCK P17-20B
CUE_WCK P17-21B
AV_CS_APROC_L P3-22A
AV_ADRS8 P3-23B
AV_ADRS5 P3-24B
AV_ADRS2 P3-25B
AV_IORD_L P3-26B
AV_DATA7 P3-27B
AV_DATA4 P3-28B
AV_DATA1 P3-29B
+5V_3
-5V_1
GND
P013
VJS3814
1C GND
2C +12V
3C -12V
4C +7.5V
5C -7.5V
6C (D_IN_DATA12P)
7C (D_IN_DATA34P)
8C
9C D_OUT_DATA12P
10C D_OUT_DATA34P
11C
12C
13C
14C
15C
16C DASD34
17C (ADSD12)
18C DASDLR
19C (REC_FRP_5V)
20C CUE_MET_DATA
21C
22C AV_ADRS10
23C AV_ADRS7
24C AV_ADRS4
25C AV_ADRS1
26C AV_IOWR_L
27C AV_DATA6
28C AV_DATA3
29C AV_DATA0
30C +5V_3
31C -5V_1
32C GND
GND
+12V
-12V
+7.5V
-7.5V
D_OUT_DATA12P P31-9
D_OUT_DATA34P P31-12
DASD34 P15-17B
DASDLR P15-18C
CUE_MET_DATA P17-20C
AV_ADRS10 P3-22C
AV_ADRS7 P3-23C
AV_ADRS4 P3-24C
AV_ADRS1 P3-25C
AV_IOWR_L P3-26C
AV_DATA6 P3-27C
AV_DATA3 P3-28C
AV_DATA0 P3-29C
+5V_3
-5V_1
GND
P014
VJS3814
1A GND
2A
3A (SSYNC)
4A
5A
6A CLK18_P
7A
8A CAP_FG1_PULSE
9A
10A (S_REC_AUD12_G)
11A S_PB_AUD12
12A S_PB_AUD34_G
13A (VIN_HST_N)
14A
15A
16A FS256_N
17A FS64_PB_12
18A (REC_FRM)
19A PB_DATA12
20A FRM5
21A FS64_PB_34
22A
23A
24A
25A
26A
27A
28A CK_45
29A
30A +3V
31A +16V
32A GND
GND
CLK18_P P10-4A
CAP_FG1_PULSE P2-25A
S_PB_AUD12 P8-27A
S_PB_AUD34_G P8-27D
FS256_N P10-21C
FS64_PB_12 P10-26D
PB_DATA12 P10-28A
FRM5 P10-2D
FS64_PB_34 P10-27C
CK_45 P1-13B, P10-26B
+3V
+16V
GND
P014
VJS3814
1B GND
2B
3B (SCLK)
4B
5B TAPE_REV_H
6B CLK18_N
7B
8B
9B
10B (S_REC_AUD34)
11B S_PB_AUD12_G
12B DAUDCK_P
13B REF_FRAME
14B
15B (REC_DATA12)
16B FS256_P
17B
18B INH_A
19B PB_DATA34
20B AUD_FEND
21B PB_FRM_A2
22B
23B
24B
25B
26B PB_TAPE_REV_H
27B
28B
29B
30B +3V
31B +16V
32B GND
GND
TAPE_REV_H P2-2B, P4-12A, P6-9C
CLK18_N P10-4B
S_PB_AUD12_G P8-27B
DAUDCK_P P8-28A
REF_FRAME P12-17B
FS256_P P10-21D
INH_A P10-9A
PB_DATA34 P10-28B
AUD_FEND P6-19B
PB_FRM_A2 P10-27A
PB_TAPE_REV_H P6-19C, P9-18A
+3V
+16V
GND
P014
VJS3814
1C GND
2C
3C (SDIN1)
4C (SDIN2)
5C
6C
7C
8C
9C (S_REC_AUD12)
10C (S_REC_AUD34_G)
11C S_PB_AUD34
12C DAUDCK_N
13C REF_HST_N
14C
15C (REC_DATA34)
16C (FS)
17C (FS64)
18C FS_PB_12
19C PB_FRM_A1
20C FS_PB_34
21C
22C
23C FS256_PB_P
24C FS256_PB_N
25C
26C
27C
28C
29C
30C +3V
31C +16V
32C GND
GND
S_PB_AUD34 P8-27C
DAUDCK_N P8-28B
REF_HST_N P12-17C
FS_PB_12 P10-27D
PB_FRM_A1 P10-28C
FS_PB_34 P10-27B
FS256_PB_P P10-8A
FS256_PB_N P10-8B
+3V
+16V
GND

COMPONENT NAME	MOTHER	09/13
CIRCUIT BOARD NO.		
VEP80A96A		
		SCM231

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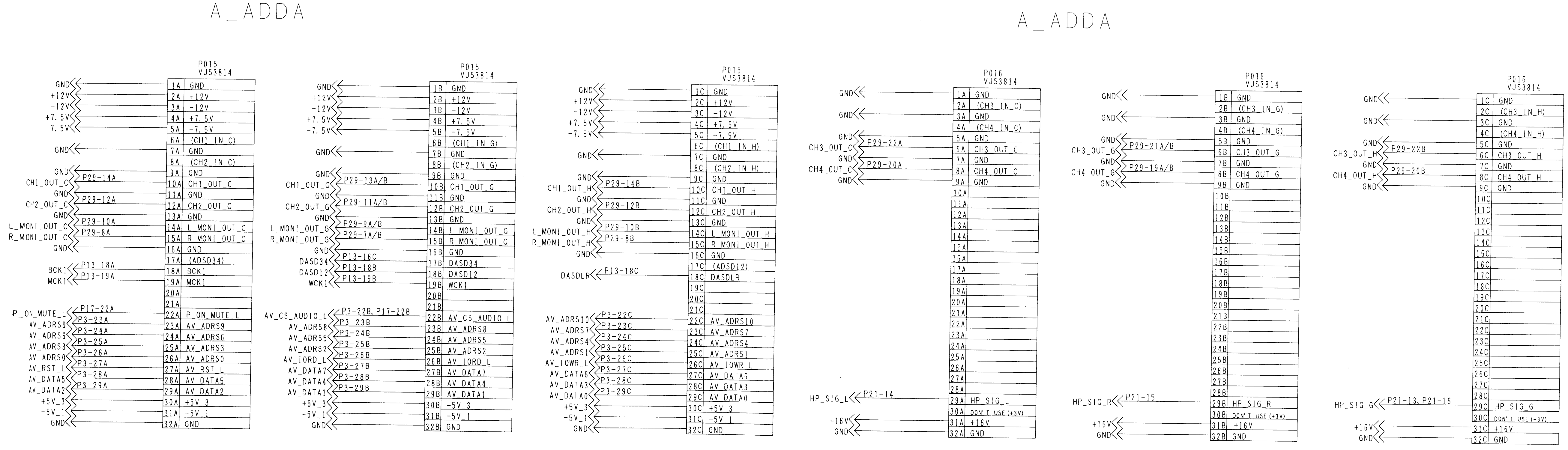
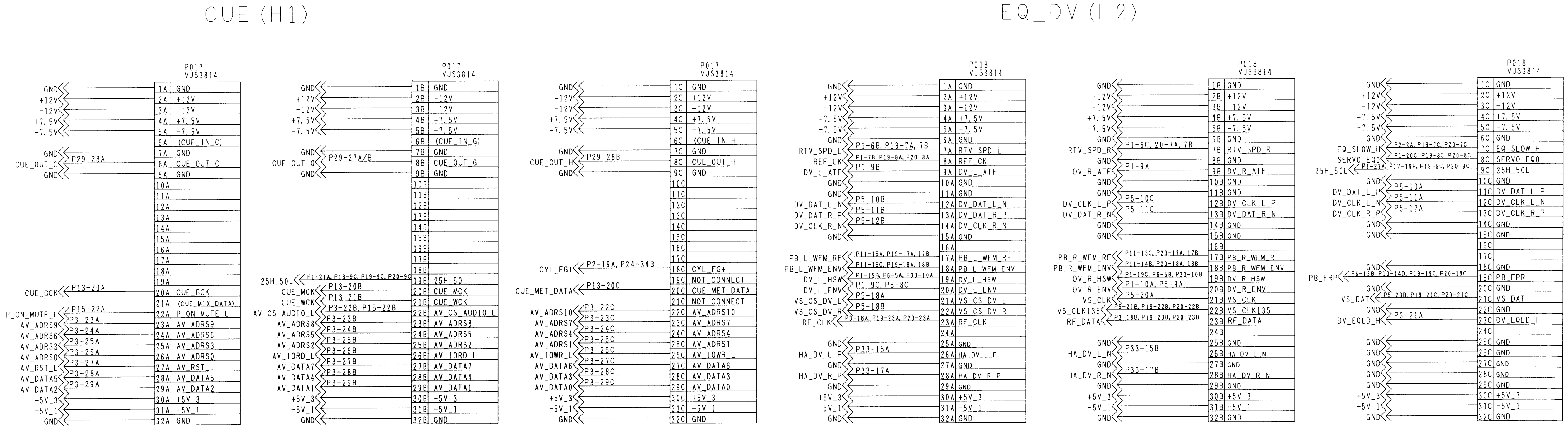

A_ADDA
P015
VJS3814
GND
+12V
-12V
+7. 5V
-7. 5V
GND
GND
P29-14A
CH1_OUT_C
GND
P29-12A
CH2_OUT_C
GND
P29-10A
L_MONI_OUT_C
P29-8A
R_MONI_OUT_C
GND
P13-18A
BCK1
P13-19A
MCK1
P17-22A
P_ON_MUTE_L
P3-23A
AV_ADRS9
P3-24A
AV_ADRS6
P3-25A
AV_ADRS3
P3-26A
AV_ADRS0
P3-27A
AV_RST_L
P3-28A
AV_DATA5
P3-29A
AV_DATA2
+5V_3
-5V_1
GND
1A GND
2A +12V
3A -12V
4A +7. 5V
5A -7. 5V
6A (CH1_IN_C)
7A GND
8A (CH2_IN_C)
9A GND
10A CH1_OUT_C
11A GND
12A CH2_OUT_C
13A GND
14A L_MONI_OUT_C
15A R_MONI_OUT_C
16A GND
17A (ADSD34)
18A BCK1
19A MCK1
20A
21A
22A P_ON_MUTE_L
23A AV_ADRS9
24A AV_ADRS6
25A AV_ADRS3
26A AV_ADRS0
27A AV_RST_L
28A AV_DATA5
29A AV_DATA2
30A +5V_3
31A -5V_1
32A GND
P015
VJS3814
GND
+12V
-12V
+7. 5V
-7. 5V
GND
GND
P29-13A/B
CH1_OUT_G
GND
P29-11A/B
CH2_OUT_G
GND
P29-9A/B
L_MONI_OUT_G
P29-7A/B
R_MONI_OUT_G
GND
P13-16C
DASD34
P13-18B
DASD12
P13-19B
WCK1
P3-22B, P17-22B
AV_CS_AUDIO_L
P3-23B
AV_ADRS8
P3-24B
AV_ADRS5
P3-25B
AV_ADRS2
P3-26B
AV_IORD_L
P3-27B
AV_DATA7
P3-28B
AV_DATA4
P3-29B
AV_DATA1
+5V_3
-5V_1
GND
1B GND
2B +12V
3B -12V
4B +7. 5V
5B -7. 5V
6B (CH1_IN_G)
7B GND
8B (CH2_IN_G)
9B GND
10B CH1_OUT_G
11B GND
12B CH2_OUT_G
13B GND
14B L_MONI_OUT_G
15B R_MONI_OUT_G
16B GND
17B DASD34
18B DASD12
19B WCK1
20B
21B
22B AV_CS_AUDIO_L
23B AV_ADRS8
24B AV_ADRS5
25B AV_ADRS2
26B AV_IORD_L
27B AV_DATA7
28B AV_DATA4
29B AV_DATA1
30B +5V_3
31B -5V_1
32B GND
P015
VJS3814
GND
+12V
-12V
+7. 5V
-7. 5V
GND
GND
P29-14B
CH1_OUT_H
GND
P29-12B
CH2_OUT_H
GND
P29-10B
L_MONI_OUT_H
P29-8B
R_MONI_OUT_H
GND
P13-18C
DASDLR
P3-22C
AV_ADRS10
P3-23C
AV_ADRS7
P3-24C
AV_ADRS4
P3-25C
AV_ADRS1
P3-26C
AV_IOWR_L
P3-27C
AV_DATA6
P3-28C
AV_DATA3
P3-29C
AV_DATA0
+5V_3
-5V_1
GND
1C GND
2C +12V
3C -12V
4C +7. 5V
5C -7. 5V
6C (CH1_IN_H)
7C GND
8C (CH2_IN_H)
9C GND
10C CH1_OUT_H
11C GND
12C CH2_OUT_H
13C GND
14C L_MONI_OUT_H
15C R_MONI_OUT_H
16C GND
17C (ADSD12)
18C DASDLR
19C
20C
21C
22C AV_ADRS10
23C AV_ADRS7
24C AV_ADRS4
25C AV_ADRS1
26C AV_IOWR_L
27C AV_DATA6
28C AV_DATA3
29C AV_DATA0
30C +5V_3
31C -5V_1
32C GND
A_ADDA
P016
VJS3814
GND
GND
GND
P29-22A
CH3_OUT_C
GND
P29-20A
CH4_OUT_C
GND
P21-14
HP_SIG_L
+16V
GND
1A GND
2A (CH3_IN_C)
3A GND
4A (CH4_IN_C)
5A GND
6A CH3_OUT_C
7A GND
8A CH4_OUT_C
9A GND
10A
11A
12A
13A
14A
15A
16A
17A
18A
19A
20A
21A
22A
23A
24A
25A
26A
27A
28A
29A HP_SIG_L
30A DON'T USE (+3V)
31A +16V
32A GND
P016
VJS3814
GND
GND
GND
P29-21A/B
CH3_OUT_G
GND
P29-19A/B
CH4_OUT_G
GND
P21-15
HP_SIG_R
+16V
GND
1B GND
2B (CH3_IN_G)
3B GND
4B (CH4_IN_G)
5B GND
6B CH3_OUT_G
7B GND
8B CH4_OUT_G
9B GND
10B
11B
12B
13B
14B
15B
16B
17B
18B
19B
20B
21B
22B
23B
24B
25B
26B
27B
28B
29B HP_SIG_R
30B DON'T USE (+3V)
31B +16V
32B GND
P016
VJS3814
GND
GND
GND
P29-22B
CH3_OUT_H
GND
P29-20B
CH4_OUT_H
GND
P21-13, P21-16
HP_SIG_G
+16V
GND
1C GND
2C (CH3_IN_H)
3C GND
4C (CH4_IN_H)
5C GND
6C CH3_OUT_H
7C GND
8C CH4_OUT_H
9C GND
10C
11C
12C
13C
14C
15C
16C
17C
18C
19C
20C
21C
22C
23C
24C
25C
26C
27C
28C
29C HP_SIG_G
30C DON'T USE (+3V)
31C +16V
32C GND

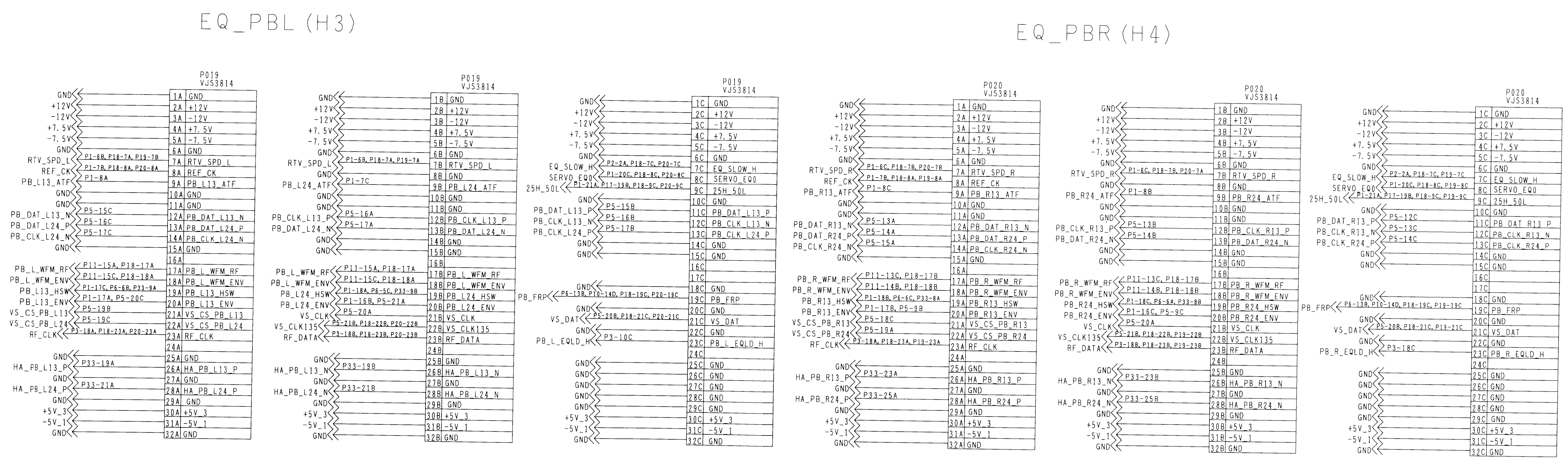
COMPONENT NAME	MOTHER	10/13
CIRCUIT BOARD NO.		
VEP80A96A		
		SCM232

KROL93(10/13)


CUE (H1)
EQ_DV (H2)
P017
VJS3814
GND 1A GND
+12V 2A +12V
-12V 3A -12V
+7. 5V 4A +7. 5V
-7. 5V 5A -7. 5V
6A (CUE_IN_C)
GND 7A GND
CUE_OUT_C P29-28A 8A CUE_OUT_C
GND 9A GND
10A
11A
12A
13A
14A
15A
16A
17A
18A
19A
CUE_BCK P13-20A 20A CUE_BCK
21A (CUE_MIX_DATA)
P_ON_MUTE_L P15-22A 22A P_ON_MUTE_L
AV_ADRS9 P3-23A 23A AV_ADRS9
AV_ADRS6 P3-24A 24A AV_ADRS6
AV_ADRS3 P3-25A 25A AV_ADRS3
AV_ADRS0 P3-26A 26A AV_ADRS0
AV_RST_L P3-27A 27A AV_RST_L
AV_DATA5 P3-28A 28A AV_DATA5
AV_DATA2 P3-29A 29A AV_DATA2
+5V_3 30A +5V_3
-5V_1 31A -5V_1
GND 32A GND
P017
VJS3814
GND 1B GND
+12V 2B +12V
-12V 3B -12V
+7. 5V 4B +7. 5V
-7. 5V 5B -7. 5V
6B (CUE_IN_G)
GND 7B GND
CUE_OUT_G P29-27A/B 8B CUE_OUT_G
GND 9B GND
10B
11B
12B
13B
14B
15B
16B
17B
18B
25H_50L P1-21A, P18-9C, P19-9C, P20-9C 19B 25H_50L
CUE_MCK P13-20B 20B CUE_MCK
CUE_WCK P13-21B 21B CUE_WCK
AV_CS_AUDIO_L P3-22B, P15-22B 22B AV_CS_AUDIO_L
AV_ADRS8 P3-23B 23B AV_ADRS8
AV_ADRS5 P3-24B 24B AV_ADRS5
AV_ADRS2 P3-25B 25B AV_ADRS2
AV_IORD_L P3-26B 26B AV_IORD_L
AV_DATA7 P3-27B 27B AV_DATA7
AV_DATA4 P3-28B 28B AV_DATA4
AV_DATA1 P3-29B 29B AV_DATA1
+5V_3 30B +5V_3
-5V_1 31B -5V_1
GND 32B GND
P017
VJS3814
GND 1C GND
+12V 2C +12V
-12V 3C -12V
+7. 5V 4C +7. 5V
-7. 5V 5C -7. 5V
6C (CUE_IN_H
GND 7C GND
CUE_OUT_H P29-28B 8C CUE_OUT_H
GND 9C GND
10C
11C
12C
13C
14C
15C
16C
17C
CYL_FG+ P2-19A, P24-34B 18C CYL_FG+
19C NOT_CONNECT
CUE_MET_DATA P13-20C 20C CUE_MET_DATA
21C NOT_CONNECT
AV_ADRS10 P3-22C 22C AV_ADRS10
AV_ADRS7 P3-23C 23C AV_ADRS7
AV_ADRS4 P3-24C 24C AV_ADRS4
AV_ADRS1 P3-25C 25C AV_ADRS1
AV_IOWR_L P3-26C 26C AV_IOWR_L
AV_DATA6 P3-27C 27C AV_DATA6
AV_DATA3 P3-28C 28C AV_DATA3
AV_DATA0 P3-29C 29C AV_DATA0
+5V_3 30C +5V_3
-5V_1 31C -5V_1
GND 32C GND
P018
VJS3814
GND 1A GND
+12V 2A +12V
-12V 3A -12V
+7. 5V 4A +7. 5V
-7. 5V 5A -7. 5V
GND 6A GND
RTV_SPD_L P1-6B, P19-7A, 7B 7A RTV_SPD_L
REF_CK P1-7B, P19-8A, P20-8A 8A REF_CK
DV_L_ATF P1-9B 9A DV_L_ATF
GND 10A GND
GND 11A GND
DV_DAT_L_N P5-10B 12A DV_DAT_L_N
DV_DAT_R_P P5-11B 13A DV_DAT_R_P
DV_CLK_R_N P5-12B 14A DV_CLK_R_N
GND 15A GND
16A
PB_L_WFM_RF P11-15A, P19-17A, 17B 17A PB_L_WFM_RF
PB_L_WFM_ENV P11-15C, P19-18A, 18B 18A PB_L_WFM_ENV
DV_L_HSW P1-19B, P6-5A, P33-10A 19A DV_L_HSW
DV_L_ENV P1-9C, P5-8C 20A DV_L_ENV
VS_CS_DV_L P5-18A 21A VS_CS_DV_L
VS_CS_DV_R P5-18B 22A VS_CS_DV_R
RF_CLK P3-18A, P19-23A, P20-23A 23A RF_CLK
24A
GND 25A GND
HA_DV_L_P P33-15A 26A HA_DV_L_P
GND 27A GND
HA_DV_R_P P33-17A 28A HA_DV_R_P
GND 29A GND
+5V_3 30A +5V_3
-5V_1 31A -5V_1
GND 32A GND
P018
VJS3814
GND 1B GND
+12V 2B +12V
-12V 3B -12V
+7. 5V 4B +7. 5V
-7. 5V 5B -7. 5V
GND 6B GND
RTV_SPD_R P1-6C, 20-7A, 7B 7B RTV_SPD_R
GND 8B GND
DV_R_ATF P1-9A 9B DV_R_ATF
GND 10B GND
GND 11B GND
DV_CLK_L_P P5-10C 12B DV_CLK_L_P
DV_DAT_R_N P5-11C 13B DV_DAT_R_N
GND 14B GND
GND 15B GND
16B
PB_R_WFM_RF P11-13C, P20-17A, 17B 17B PB_R_WFM_RF
PB_R_WFM_ENV P11-14B, P20-18A, 18B 18B PB_R_WFM_ENV
DV_R_HSW P1-19C, P6-5B, P33-10B 19B DV_R_HSW
DV_R_ENV P1-10A, P5-9A 20B DV_R_ENV
VS_CLK P5-20A 21B VS_CLK
VS_CLK135 P5-21B, P19-22B, P20-22B 22B VS_CLK135
RF_DATA P3-18B, P19-23B, P20-23B 23B RF_DATA
24B
GND 25B GND
HA_DV_L_N P33-15B 26B HA_DV_L_N
GND 27B GND
HA_DV_R_N P33-17B 28B HA_DV_R_N
GND 29B GND
+5V_3 30B +5V_3
-5V_1 31B -5V_1
GND 32B GND
P018
VJS3814
GND 1C GND
+12V 2C +12V
-12V 3C -12V
+7. 5V 4C +7. 5V
-7. 5V 5C -7. 5V
GND 6C GND
EQ_SLOW_H P2-2A, P19-7C, P20-7C 7C EQ_SLOW_H
SERVO_EQ0 P1-20C, P19-8C, P20-8C 8C SERVO_EQ0
25H_50L P1-21A, P17-19B, P19-9C, P20-9C 9C 25H_50L
GND 10C GND
DV_DAT_L_P P5-10A 11C DV_DAT_L_P
DV_CLK_L_N P5-11A 12C DV_CLK_L_N
DV_CLK_R_P P5-12A 13C DV_CLK_R_P
GND 14C GND
GND 15C GND
16C
17C
GND 18C GND
PB_FRP P6-13B, P10-14D, P19-19C, P20-19C 19C PB_FPR
GND 20C GND
VS_DAT P5-20B, P19-21C, P20-21C 21C VS_DAT
GND 22C GND
DV_EQLD_H P3-21A 23C DV_EQLD_H
24C
GND 25C GND
GND 26C GND
GND 27C GND
GND 28C GND
GND 29C GND
+5V_3 30C +5V_3
-5V_1 31C -5V_1
GND 32C GND

COMPONENT NAME	MOTHER	11/13
CIRCUIT BOARD NO.		
VEP80A96A		
		SCM233

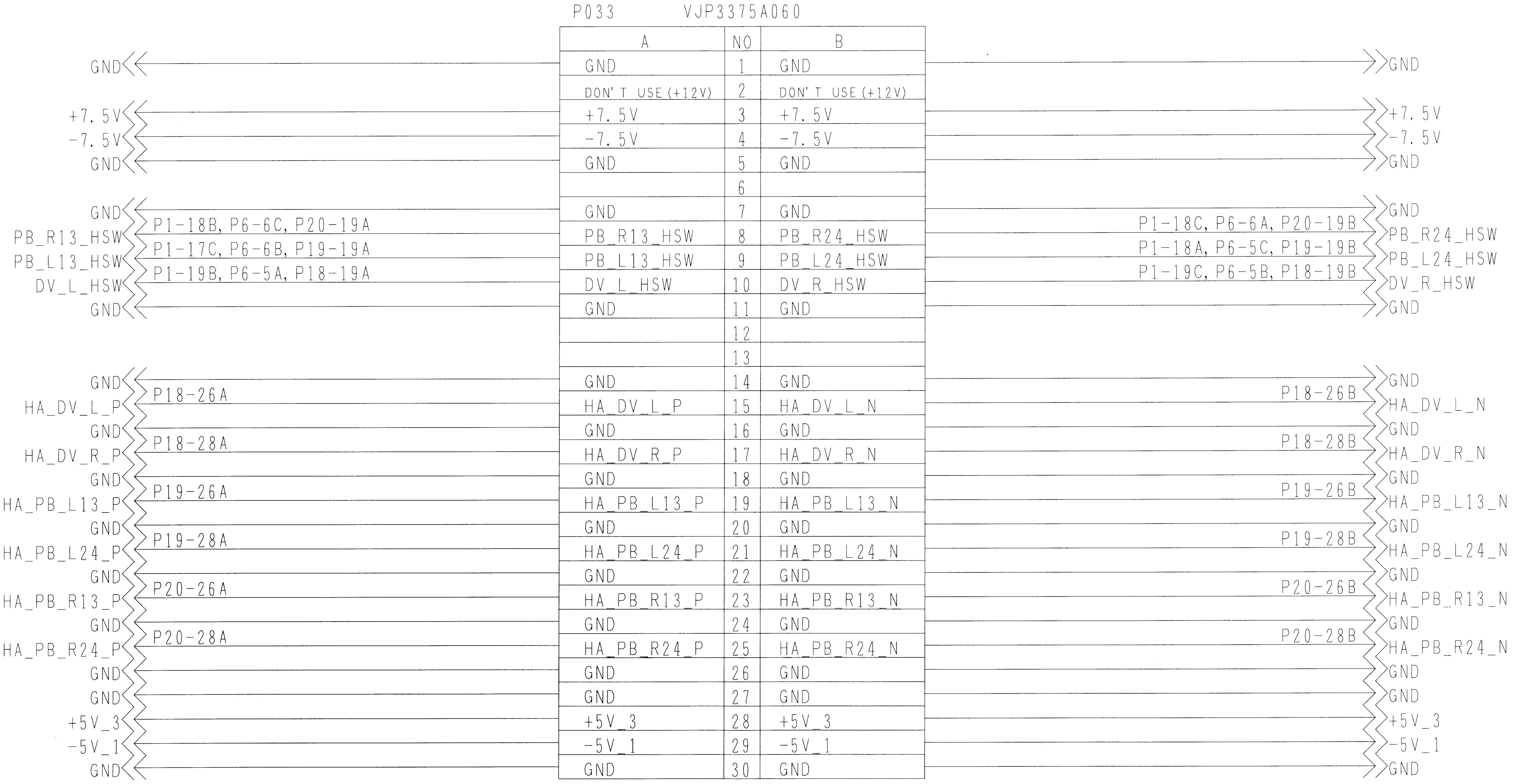
KROL93(11/13)


EQ_PBL (H3)
EQ_PBR (H4)
P019 VJS3814
GND 1A GND
+12V 2A +12V
-12V 3A -12V
+7.5V 4A +7.5V
-7.5V 5A -7.5V
GND 6A GND
RTV_SPD_L P1-6B, P18-7A, P19-7B 7A RTV_SPD_L
REF_CK P1-7B, P18-8A, P20-8A 8A REF_CK
PB_L13_ATF P1-8A 9A PB_L13_ATF
GND 10A GND
GND 11A GND
PB_DAT_L13_N P5-15C 12A PB_DAT_L13_N
PB_DAT_L24_P P5-16C 13A PB_DAT_L24_P
PB_CLK_L24_N P5-17C 14A PB_CLK_L24_N
GND 15A GND
16A
PB_L_WFM_RF P11-15A, P18-17A 17A PB_L_WFM_RF
PB_L_WFM_ENV P11-15C, P18-18A 18A PB_L_WFM_ENV
PB_L13_HSW P1-17C, P6-6B, P33-9A 19A PB_L13_HSW
PB_L13_ENV P1-17A, P5-20C 20A PB_L13_ENV
VS_CS_PB_L13 P5-19B 21A VS_CS_PB_L13
VS_CS_PB_L24 P5-19C 22A VS_CS_PB_L24
RF_CLK P3-18A, P18-23A, P20-23A 23A RF_CLK
24A
GND 25A GND
HA_PB_L13_P P33-19A 26A HA_PB_L13_P
GND 27A GND
HA_PB_L24_P P33-21A 28A HA_PB_L24_P
GND 29A GND
+5V_3 30A +5V_3
-5V_1 31A -5V_1
GND 32A GND
P019 VJS3814
GND 1B GND
+12V 2B +12V
-12V 3B -12V
+7.5V 4B +7.5V
-7.5V 5B -7.5V
GND 6B GND
RTV_SPD_L P1-6B, P18-7A, P19-7A 7B RTV_SPD_L
GND 8B GND
PB_L24_ATF P1-7C 9B PB_L24_ATF
GND 10B GND
GND 11B GND
PB_CLK_L13_P P5-16A 12B PB_CLK_L13_P
PB_DAT_L24_N P5-17A 13B PB_DAT_L24_N
GND 14B GND
GND 15B GND
16B
PB_L_WFM_RF P11-15A, P18-17A 17B PB_L_WFM_RF
PB_L_WFM_ENV P11-15C, P18-18A 18B PB_L_WFM_ENV
PB_L24_HSW P1-18A, P6-5C, P33-9B 19B PB_L24_HSW
PB_L24_ENV P1-16B, P5-21A 20B PB_L24_ENV
VS_CLK P5-20A 21B VS_CLK
VS_CLK135 P5-21B, P18-22B, P20-22B 22B VS_CLK135
RF_DATA P3-18B, P18-23B, P20-23B 23B RF_DATA
24B
GND 25B GND
HA_PB_L13_N P33-19B 26B HA_PB_L13_N
GND 27B GND
HA_PB_L24_N P33-21B 28B HA_PB_L24_N
GND 29B GND
+5V_3 30B +5V_3
-5V_1 31B -5V_1
GND 32B GND
P019 VJS3814
GND 1C GND
+12V 2C +12V
-12V 3C -12V
+7.5V 4C +7.5V
-7.5V 5C -7.5V
GND 6C GND
EQ_SLOW_H P2-2A, P18-7C, P20-7C 7C EQ_SLOW_H
SERVO_EQ0 P1-20C, P18-8C, P20-8C 8C SERVO_EQ0
25H_50L P1-21A, P17-19B, P18-9C, P20-9C 9C 25H_50L
GND 10C GND
PB_DAT_L13_P P5-15B 11C PB_DAT_L13_P
PB_CLK_L13_N P5-16B 12C PB_CLK_L13_N
PB_CLK_L24_P P5-17B 13C PB_CLK_L24_P
GND 14C GND
GND 15C GND
16C
17C
GND 18C GND
PB_FRP P6-13B, P10-14D, P18-19C, P20-19C 19C PB_FRP
GND 20C GND
VS_DAT P5-20B, P18-21C, P20-21C 21C VS_DAT
GND 22C GND
PB_L_EQLD_H P3-10C 23C PB_L_EQLD_H
24C
GND 25C GND
GND 26C GND
GND 27C GND
GND 28C GND
GND 29C GND
+5V_3 30C +5V_3
-5V_1 31C -5V_1
GND 32C GND
P020 VJS3814
GND 1A GND
+12V 2A +12V
-12V 3A -12V
+7.5V 4A +7.5V
-7.5V 5A -7.5V
GND 6A GND
RTV_SPD_R P1-6C, P18-7B, P20-7B 7A RTV_SPD_R
REF_CK P1-7B, P18-8A, P19-8A 8A REF_CK
PB_R13_ATF P1-8C 9A PB_R13_ATF
GND 10A GND
GND 11A GND
PB_DAT_R13_N P5-13A 12A PB_DAT_R13_N
PB_DAT_R24_P P5-14A 13A PB_DAT_R24_P
PB_CLK_R24_N P5-15A 14A PB_CLK_R24_N
GND 15A GND
16A
PB_R_WFM_RF P11-13C, P18-17B 17A PB_R_WFM_RF
PB_R_WFM_ENV P11-14B, P18-18B 18A PB_R_WFM_ENV
PB_R13_HSW P1-18B, P6-6C, P33-8A 19A PB_R13_HSW
PB_R13_ENV P1-17B, P5-9B 20A PB_R13_ENV
VS_CS_PB_R13 P5-18C 21A VS_CS_PB_R13
VS_CS_PB_R24 P5-19A 22A VS_CS_PB_R24
RF_CLK P3-18A, P18-23A, P19-23A 23A RF_CLK
24A
GND 25A GND
HA_PB_R13_P P33-23A 26A HA_PB_R13_P
GND 27A GND
HA_PB_R24_P P33-25A 28A HA_PB_R24_P
GND 29A GND
+5V_3 30A +5V_3
-5V_1 31A -5V_1
GND 32A GND
P020 VJS3814
GND 1B GND
+12V 2B +12V
-12V 3B -12V
+7.5V 4B +7.5V
-7.5V 5B -7.5V
GND 6B GND
RTV_SPD_R P1-6C, P18-7B, P20-7A 7B RTV_SPD_R
GND 8B GND
PB_R24_ATF P1-8B 9B PB_R24_ATF
GND 10B GND
GND 11B GND
PB_CLK_R13_P P5-13B 12B PB_CLK_R13_P
PB_DAT_R24_N P5-14B 13B PB_DAT_R24_N
GND 14B GND
GND 15B GND
16B
PB_R_WFM_RF P11-13C, P18-17B 17B PB_R_WFM_RF
PB_R_WFM_ENV P11-14B, P18-18B 18B PB_R_WFM_ENV
PB_R24_HSW P1-18C, P6-6A, P33-8B 19B PB_R24_HSW
PB_R24_ENV P1-16C, P5-9C 20B PB_R24_ENV
VS_CLK P5-20A 21B VS_CLK
VS_CLK135 P5-21B, P18-22B, P19-22B 22B VS_CLK135
RF_DATA P3-18B, P18-23B, P19-23B 23B RF_DATA
24B
GND 25B GND
HA_PB_R13_N P33-23B 26B HA_PB_R13_N
GND 27B GND
HA_PB_R24_N P33-25B 28B HA_PB_R24_N
GND 29B GND
+5V_3 30B +5V_3
-5V_1 31B -5V_1
GND 32B GND
P020 VJS3814
GND 1C GND
+12V 2C +12V
-12V 3C -12V
+7.5V 4C +7.5V
-7.5V 5C -7.5V
GND 6C GND
EQ_SLOW_H P2-2A, P18-7C, P19-7C 7C EQ_SLOW_H
SERVO_EQ0 P1-20C, P18-8C, P19-8C 8C SERVO_EQ0
25H_50L P1-21A, P17-19B, P18-9C, P19-9C 9C 25H_50L
GND 10C GND
PB_DAT_R13_P P5-12C 11C PB_DAT_R13_P
PB_CLK_R13_N P5-13C 12C PB_CLK_R13_N
PB_CLK_R24_P P5-14C 13C PB_CLK_R24_P
GND 14C GND
GND 15C GND
16C
17C
GND 18C GND
PB_FRP P6-13B, P10-14D, P18-19C, P19-19C 19C PB_FRP
GND 20C GND
VS_DAT P5-20B, P18-21C, P19-21C 21C VS_DAT
GND 22C GND
PB_R_EQLD_H P3-18C 23C PB_R_EQLD_H
24C
GND 25C GND
GND 26C GND
GND 27C GND
GND 28C GND
GND 29C GND
+5V_3 30C +5V_3
-5V_1 31C -5V_1
GND 32C GND

COMPONENT NAME	MOTHER	12/13
CIRCUIT BOARD NO.		
VEP80A96A		
		SCM234

KROL93(12/13)

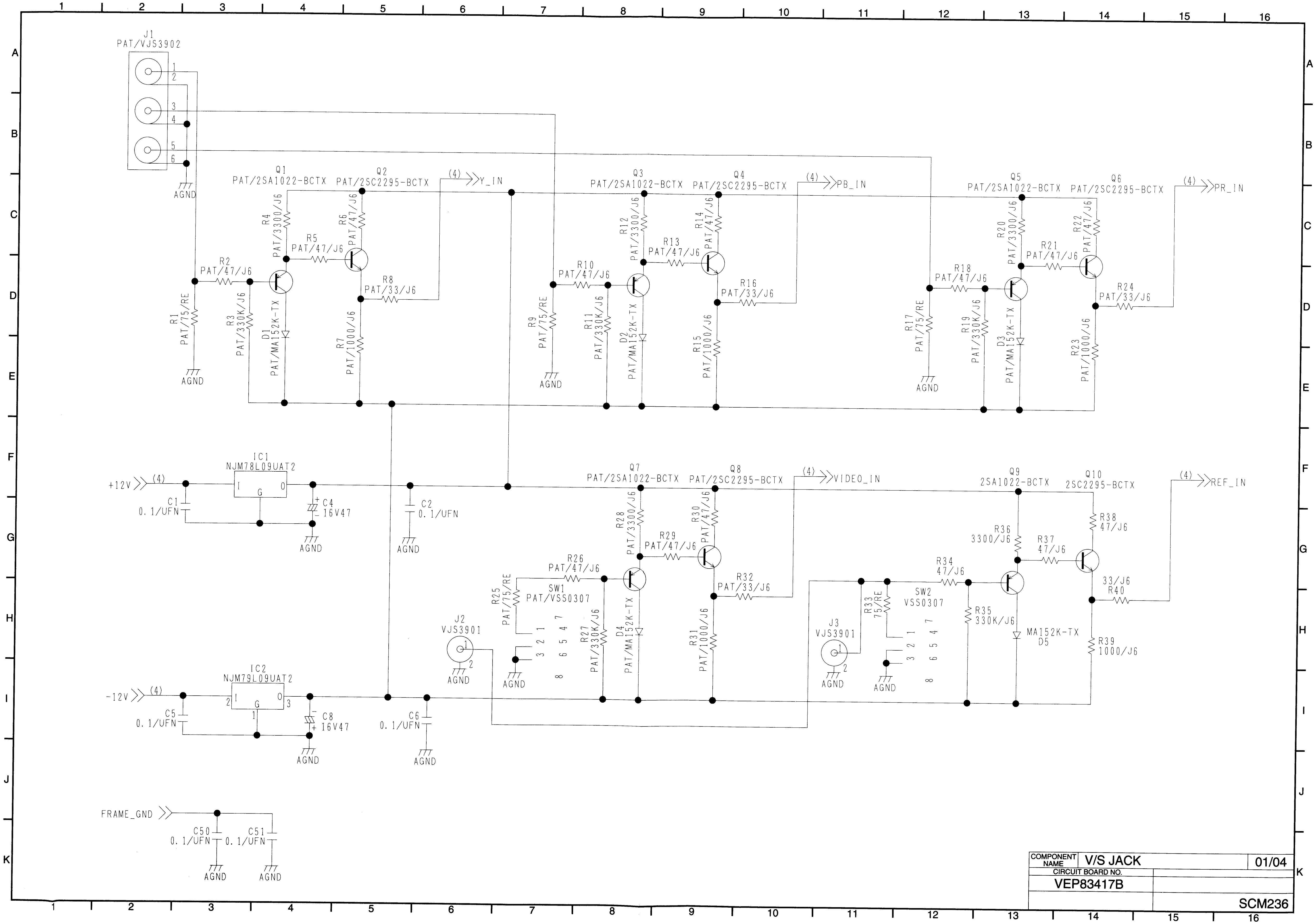
HEAD_AMP



P033 VJP3375A060

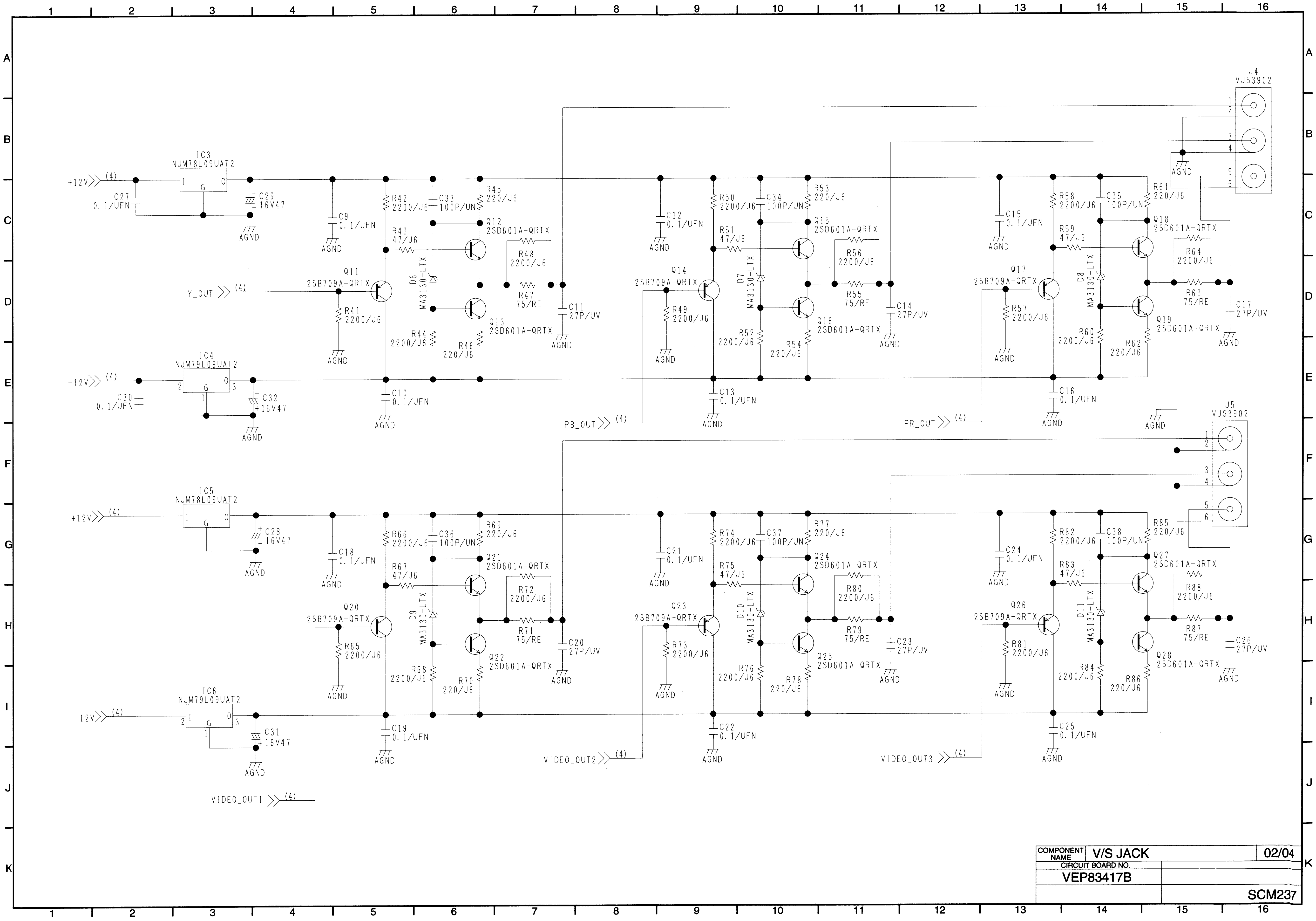
		A	NO	B		
GND		GND	1	GND		GND
		DON'T USE(+12V)	2	DON'T USE(+12V)		
+7.5V		+7.5V	3	+7.5V		+7.5V
-7.5V		-7.5V	4	-7.5V		-7.5V
GND		GND	5	GND		GND
			6			
GND		GND	7	GND		GND
PB_R13_HSW	P1-18B, P6-6C, P20-19A	PB_R13_HSW	8	PB_R24_HSW	P1-18C, P6-6A, P20-19B	PB_R24_HSW
PB_L13_HSW	P1-17C, P6-6B, P19-19A	PB_L13_HSW	9	PB_L24_HSW	P1-18A, P6-5C, P19-19B	PB_L24_HSW
DV_L_HSW	P1-19B, P6-5A, P18-19A	DV_L_HSW	10	DV_R_HSW	P1-19C, P6-5B, P18-19B	DV_R_HSW
GND		GND	11	GND		GND
			12			
			13			
GND		GND	14	GND		GND
HA_DV_L_P	P18-26A	HA_DV_L_P	15	HA_DV_L_N	P18-26B	HA_DV_L_N
GND		GND	16	GND		GND
HA_DV_R_P	P18-28A	HA_DV_R_P	17	HA_DV_R_N	P18-28B	HA_DV_R_N
GND		GND	18	GND		GND
HA_PB_L13_P	P19-26A	HA_PB_L13_P	19	HA_PB_L13_N	P19-26B	HA_PB_L13_N
GND		GND	20	GND		GND
HA_PB_L24_P	P19-28A	HA_PB_L24_P	21	HA_PB_L24_N	P19-28B	HA_PB_L24_N
GND		GND	22	GND		GND
HA_PB_R13_P	P20-26A	HA_PB_R13_P	23	HA_PB_R13_N	P20-26B	HA_PB_R13_N
GND		GND	24	GND		GND
HA_PB_R24_P	P20-28A	HA_PB_R24_P	25	HA_PB_R24_N	P20-28B	HA_PB_R24_N
GND		GND	26	GND		GND
GND		GND	27	GND		GND
+5V_3		+5V_3	28	+5V_3		+5V_3
-5V_1		-5V_1	29	-5V_1		-5V_1
GND		GND	30	GND		GND

COMPONENT NAME	MOTHER	13/13
CIRCUIT BOARD NO.		
VEP80A96A		
		SCM235


J1
PAT/VJS3902
AGND
Q1
PAT/2SA1022-BCTX
Q2
PAT/2SC2295-BCTX
(4)
Y_IN
R1
PAT/75/RE
R2
PAT/47/J6
R3
PAT/330K/J6
R4
PAT/3300/J6
R5
PAT/47/J6
R6
PAT/47/J6
R7
PAT/1000/J6
R8
PAT/33/J6
D1
PAT/MA152K-TX
Q3
PAT/2SA1022-BCTX
Q4
PAT/2SC2295-BCTX
PB_IN
R9
PAT/75/RE
R10
PAT/47/J6
R11
PAT/330K/J6
R12
PAT/3300/J6
R13
PAT/47/J6
R14
PAT/47/J6
R15
PAT/1000/J6
R16
PAT/33/J6
D2
PAT/MA152K-TX
Q5
PAT/2SA1022-BCTX
Q6
PAT/2SC2295-BCTX
PR_IN
R17
PAT/75/RE
R18
PAT/47/J6
R19
PAT/330K/J6
R20
PAT/3300/J6
R21
PAT/47/J6
R22
PAT/47/J6
R23
PAT/1000/J6
R24
PAT/33/J6
D3
PAT/MA152K-TX
IC1
NJM78L09UAT2
+12V
C1
0.1/UFN
C4
16V47
C2
0.1/UFN
Q7
PAT/2SA1022-BCTX
Q8
PAT/2SC2295-BCTX
VIDEO_IN
R25
PAT/75/RE
R26
PAT/47/J6
SW1
PAT/VSS0307
R27
PAT/330K/J6
R28
PAT/3300/J6
R29
PAT/47/J6
R30
PAT/47/J6
R31
PAT/1000/J6
R32
PAT/33/J6
D4
PAT/MA152K-TX
J2
VJS3901
Q9
2SA1022-BCTX
Q10
2SC2295-BCTX
REF_IN
R33
75/RE
SW2
VSS0307
R34
47/J6
R35
330K/J6
R36
3300/J6
R37
47/J6
R38
47/J6
R39
1000/J6
R40
33/J6
MA152K-TX
D5
J3
VJS3901
IC2
NJM79L09UAT2
-12V
C5
0.1/UFN
C8
16V47
C6
0.1/UFN
FRAME_GND
C50
0.1/UFN
C51
0.1/UFN

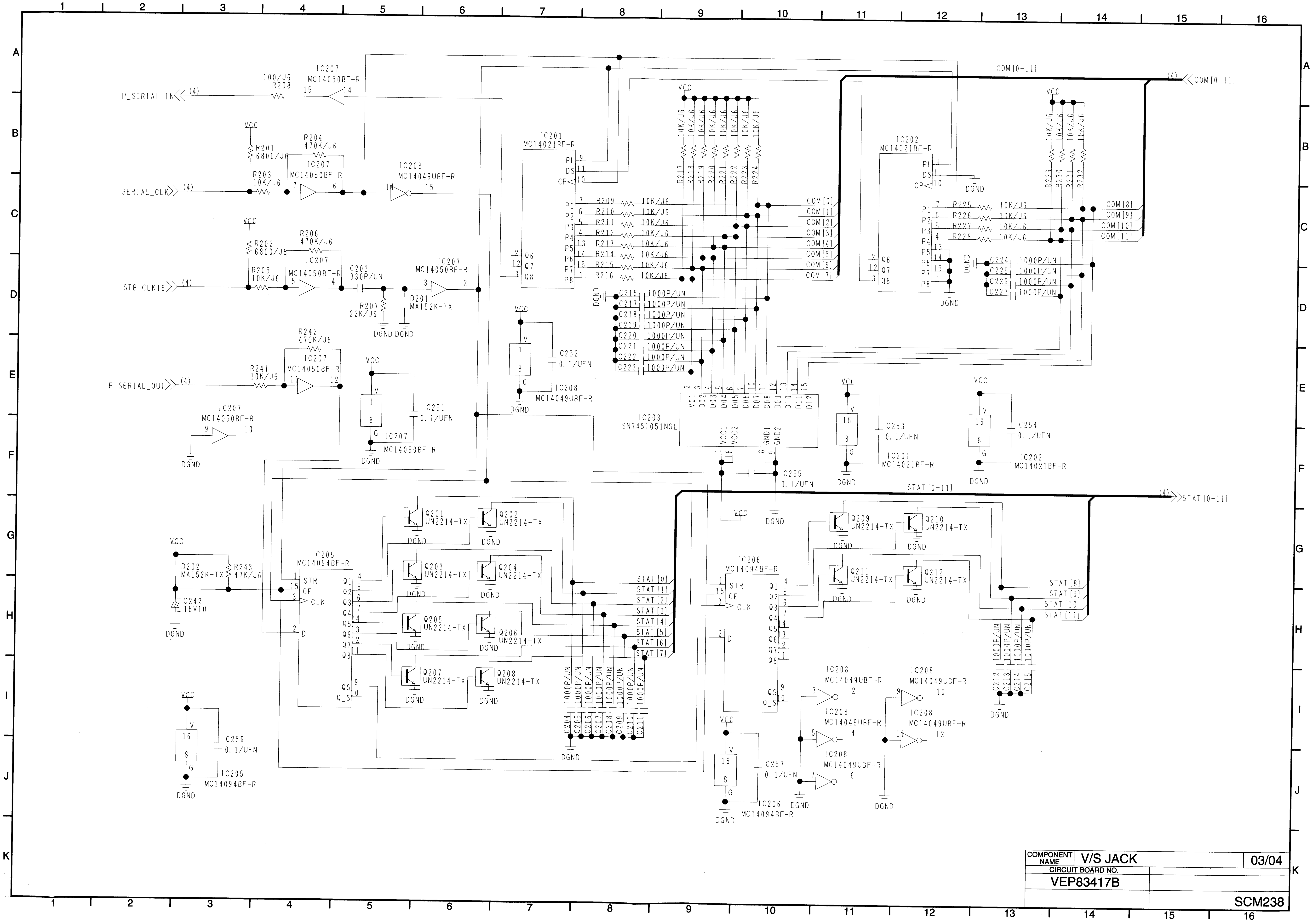
COMPONENT NAME	V/S JACK	01/04
CIRCUIT BOARD NO.		
VEP83417B		
		SCM236

KR3X13(1/4)


IC3
NJM78L09UAT2
IC4
NJM79L09UAT2
IC5
NJM78L09UAT2
IC6
NJM79L09UAT2
+12V (4)
-12V (4)
C27 0.1/UFN
C29 16V47
C30 0.1/UFN
C32 16V47
C28 16V47
C31 16V47
AGND
C9 0.1/UFN
C10 0.1/UFN
C12 0.1/UFN
C13 0.1/UFN
C15 0.1/UFN
C16 0.1/UFN
C18 0.1/UFN
C19 0.1/UFN
C21 0.1/UFN
C22 0.1/UFN
C24 0.1/UFN
C25 0.1/UFN
C33 100P/UN
C34 100P/UN
C35 100P/UN
C36 100P/UN
C37 100P/UN
C38 100P/UN
C11 27P/UV
C14 27P/UV
C17 27P/UV
C20 27P/UV
C23 27P/UV
C26 27P/UV
R41 2200/J6
R42 2200/J6
R43 47/J6
R44 2200/J6
R45 220/J6
R46 220/J6
R47 75/RE
R48 2200/J6
R49 2200/J6
R50 2200/J6
R51 47/J6
R52 2200/J6
R53 220/J6
R54 220/J6
R55 75/RE
R56 2200/J6
R57 2200/J6
R58 2200/J6
R59 47/J6
R60 2200/J6
R61 220/J6
R62 220/J6
R63 75/RE
R64 2200/J6
R65 2200/J6
R66 2200/J6
R67 47/J6
R68 2200/J6
R69 220/J6
R70 220/J6
R71 75/RE
R72 2200/J6
R73 2200/J6
R74 2200/J6
R75 47/J6
R76 2200/J6
R77 220/J6
R78 220/J6
R79 75/RE
R80 2200/J6
R81 2200/J6
R82 2200/J6
R83 47/J6
R84 2200/J6
R85 220/J6
R86 220/J6
R87 75/RE
R88 2200/J6
Q11 2SB709A-QRTX
Q12 2SD601A-QRTX
Q13 2SD601A-QRTX
Q14 2SB709A-QRTX
Q15 2SD601A-QRTX
Q16 2SD601A-QRTX
Q17 2SB709A-QRTX
Q18 2SD601A-QRTX
Q19 2SD601A-QRTX
Q20 2SB709A-QRTX
Q21 2SD601A-QRTX
Q22 2SD601A-QRTX
Q23 2SB709A-QRTX
Q24 2SD601A-QRTX
Q25 2SD601A-QRTX
Q26 2SB709A-QRTX
Q27 2SD601A-QRTX
Q28 2SD601A-QRTX
D6 MA3130-LTX
D7 MA3130-LTX
D8 MA3130-LTX
D9 MA3130-LTX
D10 MA3130-LTX
D11 MA3130-LTX
Y_OUT (4)
PB_OUT (4)
PR_OUT (4)
VIDEO_OUT1 (4)
VIDEO_OUT2 (4)
VIDEO_OUT3 (4)
J4 VJS3902
J5 VJS3902
1 2 3 4 5 6
A B C D E F G H I J K
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

COMPONENT NAME	V/S JACK	02/04
CIRCUIT BOARD NO.		
VEP83417B		
		SCM237

KR3X13(2/4)

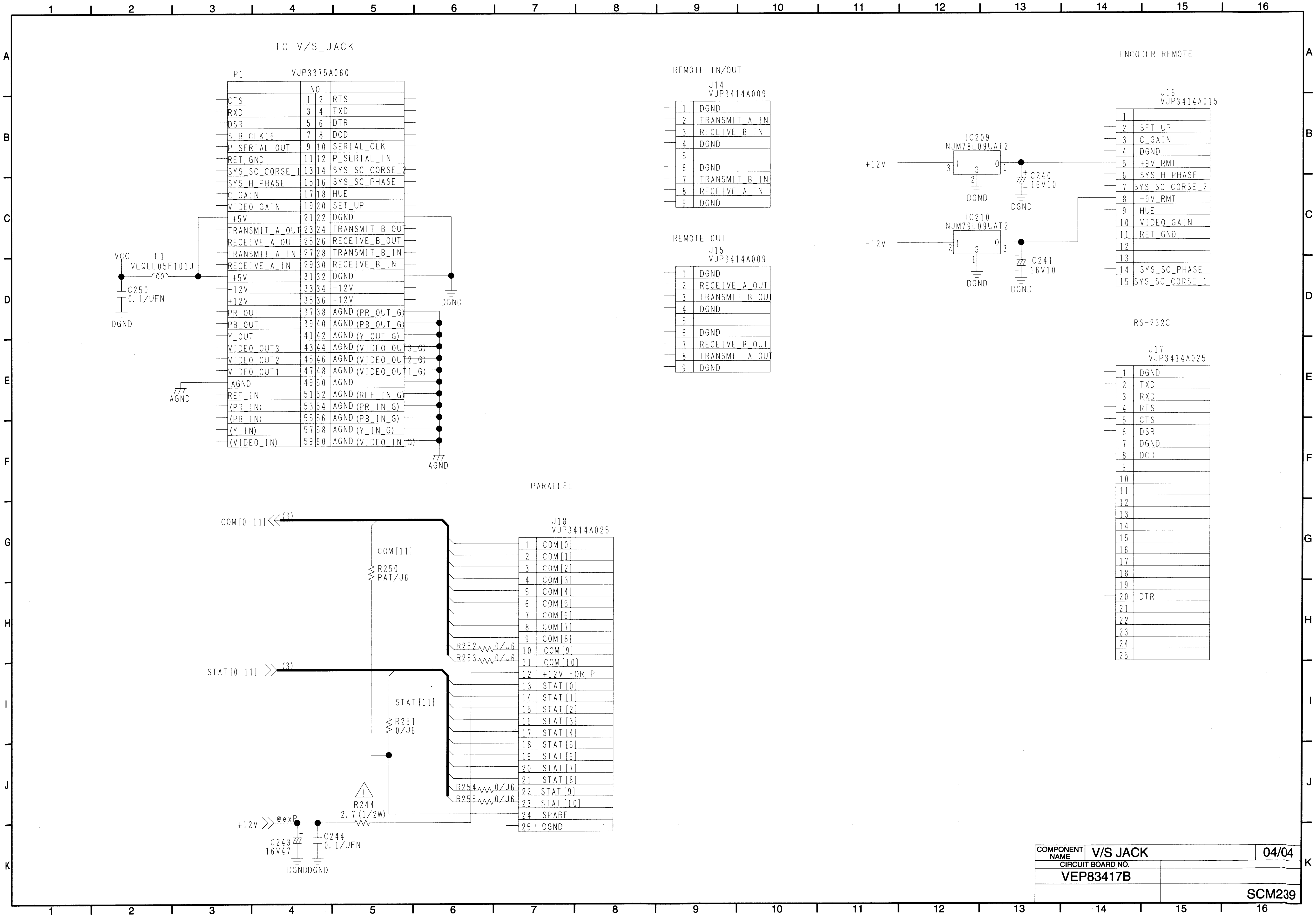

P_SERIAL_IN
(4)
100/J6
R208
IC207
MC14050BF-R
SERIAL_CLK
VCC
R201
6800/J6
R203
10K/J6
R204
470K/J6
IC208
MC14049UBF-R
STB_CLK16
R202
6800/J6
R205
10K/J6
R206
470K/J6
C203
330P/UN
R207
22K/J6
D201
MA152K-TX
DGND
P_SERIAL_OUT
R241
10K/J6
R242
470K/J6
C251
0.1/UFN
C252
0.1/UFN
IC201
MC14021BF-R
PL
DS
CP
P1
P2
P3
P4
P5
P6
P7
P8
Q6
Q7
Q8
R209
R210
R211
R212
R213
R214
R215
R216
10K/J6
R217
R218
R219
R220
R221
R222
R223
R224
C216
C217
C218
C219
C220
C221
C222
C223
1000P/UN
COM[0]
COM[1]
COM[2]
COM[3]
COM[4]
COM[5]
COM[6]
COM[7]
COM[0-11]
IC202
MC14021BF-R
R225
R226
R227
R228
R229
R230
R231
R232
C224
C225
C226
C227
COM[8]
COM[9]
COM[10]
COM[11]
IC203
SN74S1051NSL
VCC1
VCC2
GND1
GND2
C253
0.1/UFN
C254
0.1/UFN
C255
0.1/UFN
STAT[0-11]
IC205
MC14094BF-R
STR
OE
CLK
D
QS
Q_S
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
D202
MA152K-TX
R243
47K/J6
C242
16V10
C256
0.1/UFN
Q201
Q202
Q203
Q204
Q205
Q206
Q207
Q208
UN2214-TX
C204
C205
C206
C207
C208
C209
C210
C211
STAT[0]
STAT[1]
STAT[2]
STAT[3]
STAT[4]
STAT[5]
STAT[6]
STAT[7]
IC206
MC14094BF-R
C257
0.1/UFN
Q209
Q210
Q211
Q212
STAT[8]
STAT[9]
STAT[10]
STAT[11]
C212
C213
C214
C215
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

COMPONENT NAME V/S JACK 03/04

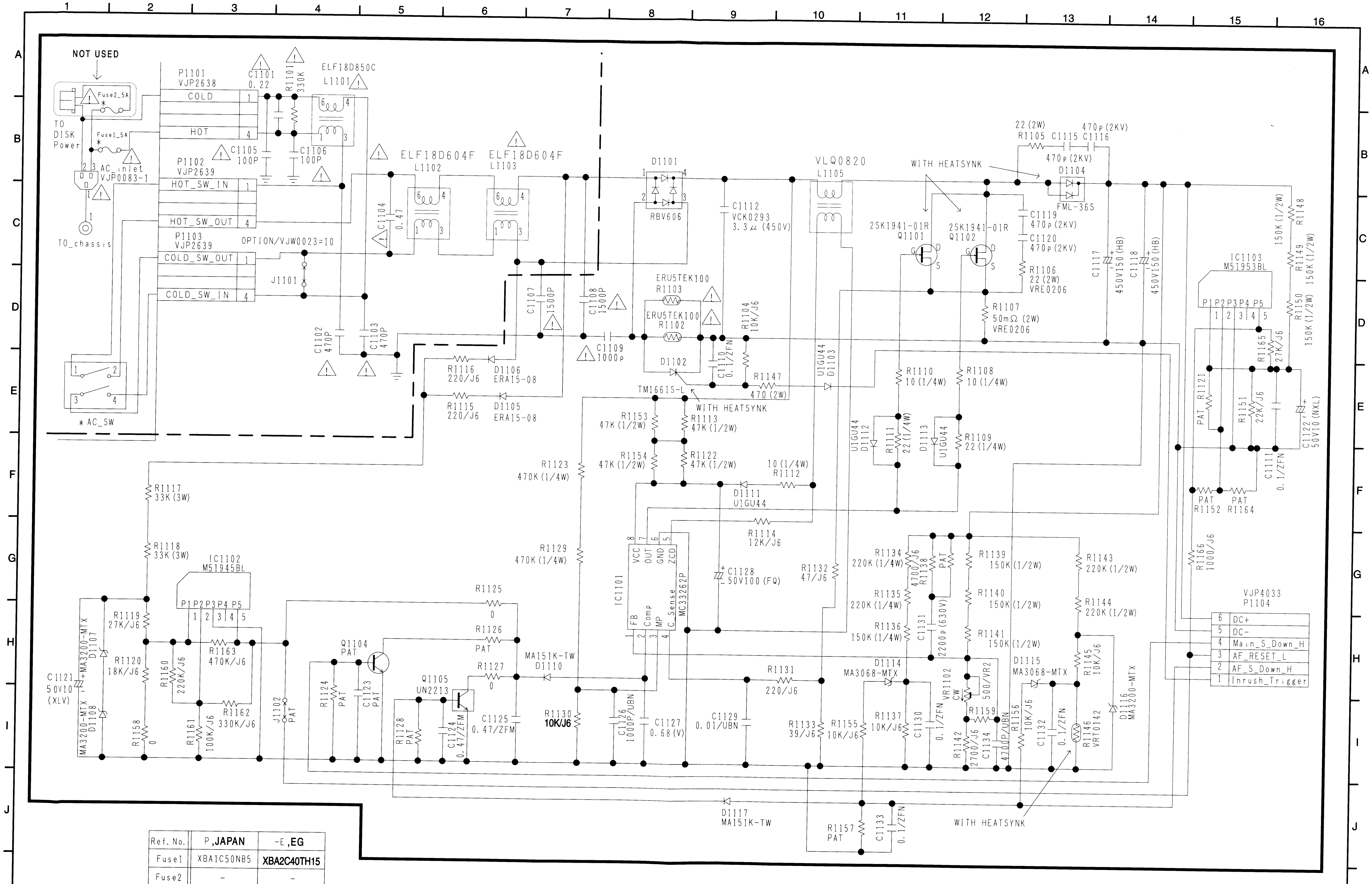
CIRCUIT BOARD NO.

VEP83417B

SCM238


TO V/S_JACK
P1 VJP3375A060
NO
CTS 1 2 RTS
RXD 3 4 TXD
DSR 5 6 DTR
STB_CLK16 7 8 DCD
P_SERIAL_OUT 9 10 SERIAL_CLK
RET_GND 11 12 P_SERIAL_IN
SYS_SC_CORSE_1 13 14 SYS_SC_CORSE_2
SYS_H_PHASE 15 16 SYS_SC_PHASE
C_GAIN 17 18 HUE
VIDEO_GAIN 19 20 SET_UP
+5V 21 22 DGND
TRANSMIT_A_OUT 23 24 TRANSMIT_B_OUT
RECEIVE_A_OUT 25 26 RECEIVE_B_OUT
TRANSMIT_A_IN 27 28 TRANSMIT_B_IN
RECEIVE_A_IN 29 30 RECEIVE_B_IN
+5V 31 32 DGND
-12V 33 34 -12V
+12V 35 36 +12V
PR_OUT 37 38 AGND (PR_OUT_G)
PB_OUT 39 40 AGND (PB_OUT_G)
Y_OUT 41 42 AGND (Y_OUT_G)
VIDEO_OUT3 43 44 AGND (VIDEO_OUT3_G)
VIDEO_OUT2 45 46 AGND (VIDEO_OUT2_G)
VIDEO_OUT1 47 48 AGND (VIDEO_OUT1_G)
AGND 49 50 AGND
REF_IN 51 52 AGND (REF_IN_G)
(PR_IN) 53 54 AGND (PR_IN_G)
(PB_IN) 55 56 AGND (PB_IN_G)
(Y_IN) 57 58 AGND (Y_IN_G)
(VIDEO_IN) 59 60 AGND (VIDEO_IN_G)
VCC
L1 VLQEL05F101J
C250 0.1/UFN
DGND
AGND
DGND
AGND
REMOTE IN/OUT
J14 VJP3414A009
1 DGND
2 TRANSMIT_A_IN
3 RECEIVE_B_IN
4 DGND
5
6 DGND
7 TRANSMIT_B_IN
8 RECEIVE_A_IN
9 DGND
REMOTE OUT
J15 VJP3414A009
1 DGND
2 RECEIVE_A_OUT
3 TRANSMIT_B_OUT
4 DGND
5
6 DGND
7 RECEIVE_B_OUT
8 TRANSMIT_A_OUT
9 DGND
+12V
IC209 NJM78L09UAT2
3 I O 1
G 2
DGND
C240 16V10
DGND
-12V
IC210 NJM79L09UAT2
2 I O 3
G 1
DGND
C241 16V10
DGND
ENCODER REMOTE
J16 VJP3414A015
1
2 SET_UP
3 C_GAIN
4 DGND
5 +9V_RMT
6 SYS_H_PHASE
7 SYS_SC_CORSE_2
8 -9V_RMT
9 HUE
10 VIDEO_GAIN
11 RET_GND
12
13
14 SYS_SC_PHASE
15 SYS_SC_CORSE_1
RS-232C
J17 VJP3414A025
1 DGND
2 TXD
3 RXD
4 RTS
5 CTS
6 DSR
7 DGND
8 DCD
9
10
11
12
13
14
15
16
17
18
19
20 DTR
21
22
23
24
25
PARALLEL
COM[0-11] (3)
COM[11]
R250 PAT/J6
J18 VJP3414A025
1 COM[0]
2 COM[1]
3 COM[2]
4 COM[3]
5 COM[4]
6 COM[5]
7 COM[6]
8 COM[7]
9 COM[8]
10 COM[9]
11 COM[10]
12 +12V_FOR_P
13 STAT[0]
14 STAT[1]
15 STAT[2]
16 STAT[3]
17 STAT[4]
18 STAT[5]
19 STAT[6]
20 STAT[7]
21 STAT[8]
22 STAT[9]
23 STAT[10]
24 SPARE
25 DGND
R252 0/J6
R253 0/J6
STAT[0-11] (3)
STAT[11]
R251 0/J6
R254 0/J6
R255 0/J6
!
R244 2.7(1/2W)
+12V @exP
C243 16V47
C244 0.1/UFN
DGND DGND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

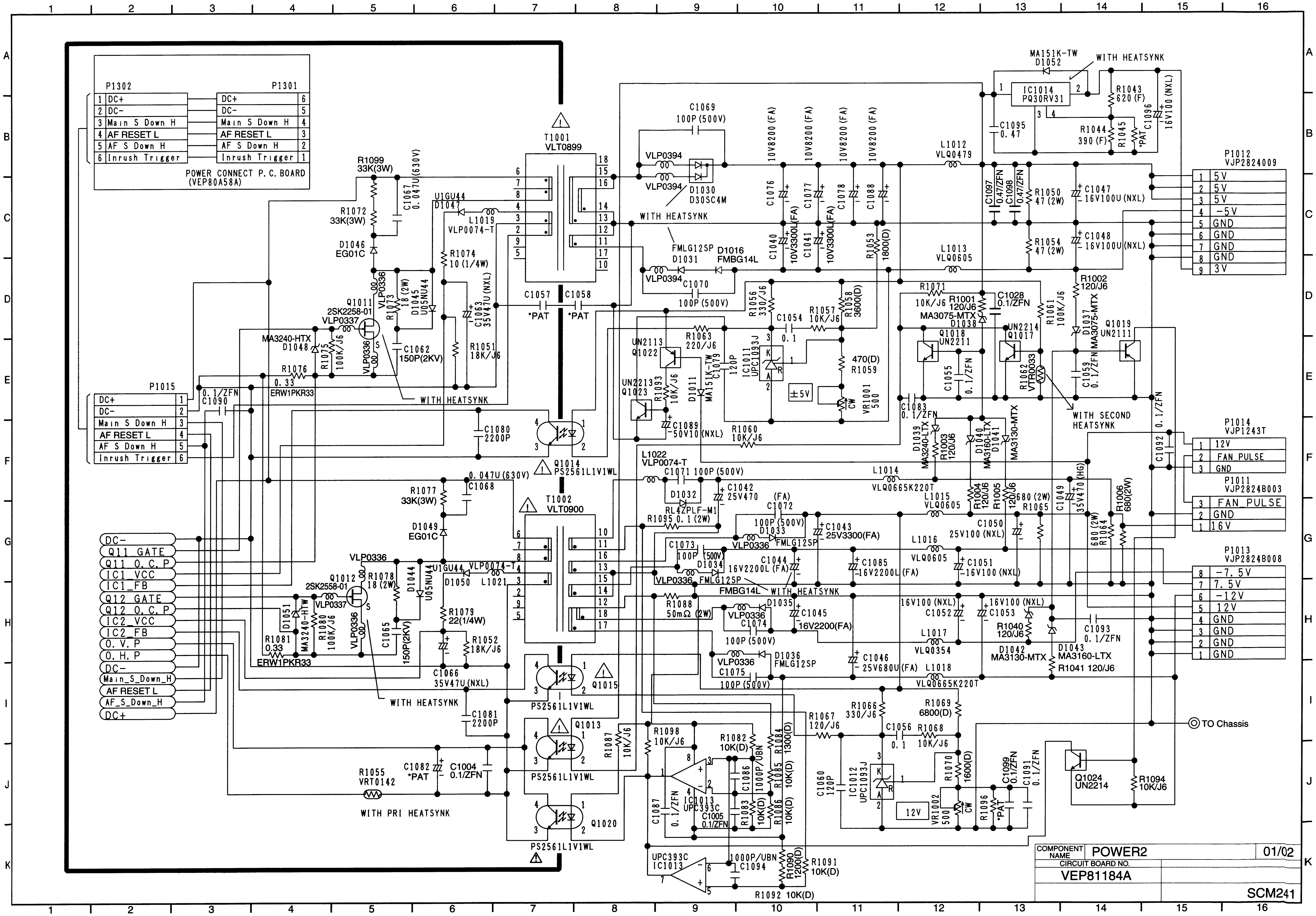
COMPONENT NAME	V/S JACK	04/04
CIRCUIT BOARD NO.		
VEP83417B		
		SCM239


NOT USED
Fuse2_5A
Fuse1_5A
TO DISK Power
AC_inlet VJP0083-1
TO_chassis
P1101 VJP2638
COLD
HOT
P1102 VJP2639
HOT_SW_IN
HOT_SW_OUT
P1103 VJP2639
COLD_SW_OUT
COLD_SW_IN
OPTION/VJW0023=10
J1101
* AC_SW
C1101 0.22
R1101 330K
ELF18D850C L1101
C1105 100P
C1106 100P
ELF18D604F L1102
ELF18D604F L1103
C1104 0.47
C1102 470P
C1103 470P
C1107 1500P
C1108 1500P
C1109 1000p
R1116 220/J6
D1106 ERA15-08
R1115 220/J6
D1105 ERA15-08
D1101 RBV606
C1112 VCK0293 3.3μ (450V)
ERU5TEK100 R1103
ERU5TEK100 R1102
R1104 10K/J6
C1110 0.1/ZFN
D1102 TM1661S-L
WITH HEATSYNK
R1147 470 (2W)
VLQ0820 L1105
U1GU44 D1103
2SK1941-01R Q1101
2SK1941-01R Q1102
22 (2W) R1105 C1115 C1116 470p (2KV)
470p (2KV)
D1104 FML-36S
C1119 470p (2KV)
C1120 470p (2KV)
R1106 22 (2W) VRE0206
R1107 50mΩ (2W) VRE0206
C1117 450V150 (HB)
C1118 450V150 (HB)
R1148 150K (1/2W)
R1149 150K (1/2W)
R1150 150K (1/2W)
IC1103 M51953BL
P1 P2 P3 P4 P5
R1165 27K/J6
R1121 PAT
R1151 22K/J6
C1122 50V10 (NXL)
C1111 0.1/ZFN
R1152 PAT
R1164 PAT
R1110 10 (1/4W)
R1108 10 (1/4W)
U1GU44 D1112
R1111 22 (1/4W)
D1113 U1GU44
R1109 22 (1/4W)
R1153 47K (1/2W)
R1113 47K (1/2W)
R1154 47K (1/2W)
R1122 47K (1/2W)
R1123 470K (1/4W)
10 (1/4W) R1112
D1111 U1GU44
R1114 12K/J6
R1129 470K (1/4W)
IC1101 MC33262P
VCC OUT GND ZCD
FB Comp MP C_Sense
C1128 50V100 (FQ)
R1132 47/J6
R1134 220K (1/4W)
R1138 4700/J6
PAT
R1135 220K (1/4W)
C1131 2200p (630V)
R1136 150K (1/4W)
R1139 150K (1/2W)
R1140 150K (1/2W)
R1141 150K (1/2W)
R1143 220K (1/2W)
R1144 220K (1/2W)
R1145 10K/J6
R1166 1000/J6
VJP4033 P1104
DC+
DC-
Main_S_Down_H
AF_RESET_L
AF_S_Down_H
Inrush_Trigger
R1117 33K (3W)
R1118 33K (3W)
IC1102 M51945BL
R1119 27K/J6
R1120 18K/J6
R1160 220K/J6
R1163 470K/J6
R1162 330K/J6
R1161 100K/J6
R1158 0
C1121 50V10 (XLV)
MA3200-MTX D1107
MA3200-MTX D1108
J1102 PAT
Q1104 PAT
R1124 PAT
C1123 PAT
R1125 0
R1126 PAT
R1127 0
Q1105 UN2213
R1128 PAT
C1124 0.47/ZFM
C1125 0.47/ZFM
MA151K-TW D1110
R1130 10K/J6
C1126 1000P/UBN
C1127 0.68 (V)
C1129 0.01/UBN
R1131 220/J6
R1133 39/J6
R1155 10K/J6
D1114 MA3068-MTX
R1137 10K/J6
C1130 0.1/ZFN
VR1102 CW 500/VR2
R1159
R1142 2700/J6
C1134 4700P/UBN
D1115 MA3068-MTX
R1156 10K/J6
C1132 0.1/ZFN
R1146 VRT0142
D1116 MA3200-MTX
D1117 MA151K-TW
R1157 PAT
C1133 0.1/ZFN
WITH HEATSYNK

Ref. No.	P,JAPAN	-E,EG
Fuse1	XBA1C50NB5	XBA2C40TH15
Fuse2	-	-

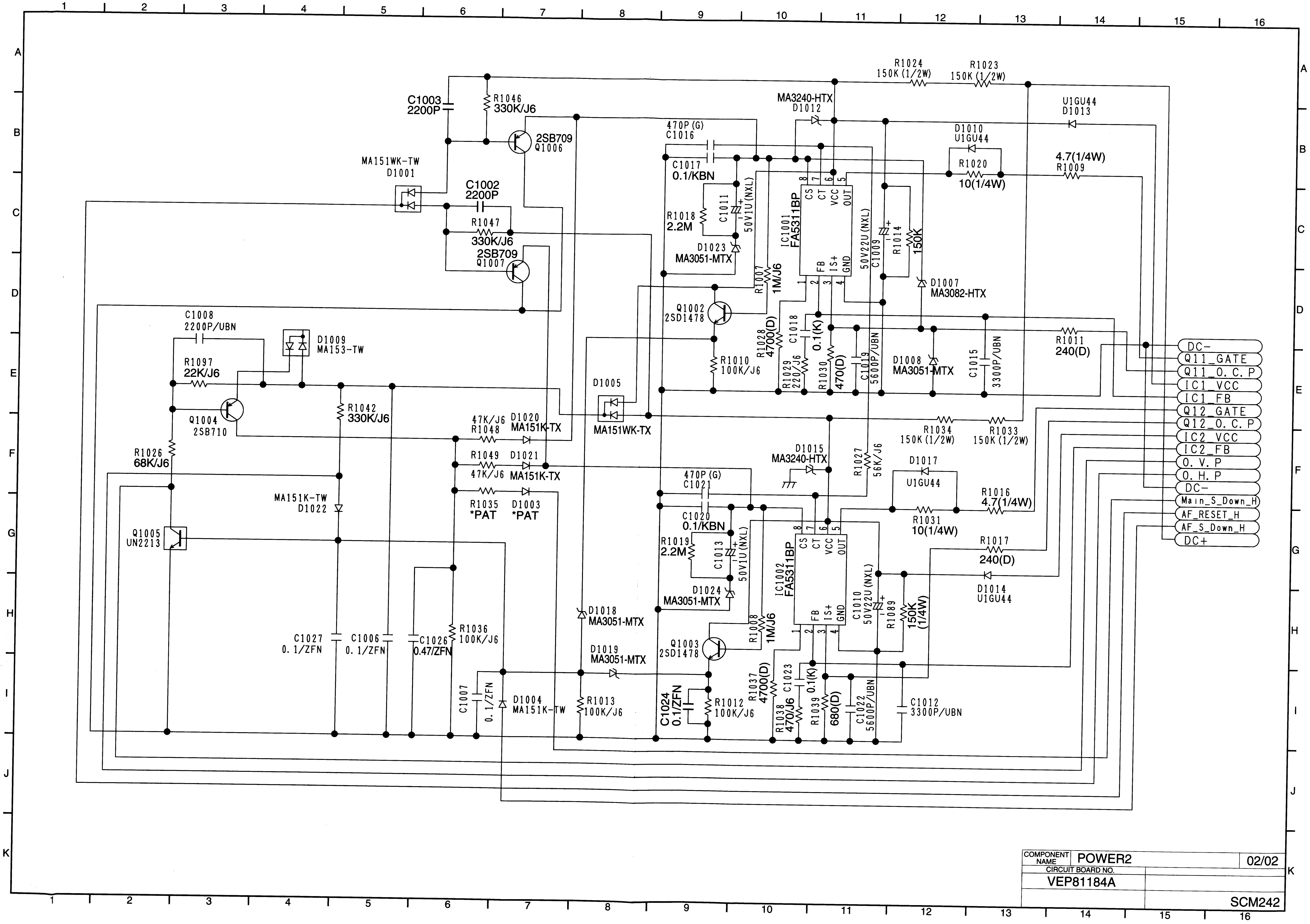
COMPONENT NAME	POWER1	01/01
CIRCUIT BOARD NO.		
VEP81183A		
		SCM240

KR1C79(1/1)-3


P1302
P1301
1 DC+
2 DC-
3 Main S Down H
4 AF RESET L
5 AF S Down H
6 Inrush Trigger
POWER CONNECT P. C. BOARD
(VEP80A58A)
P1015
DC-
Q11 GATE
Q11 O. C. P
IC1 VCC
IC1 FB
Q12 GATE
Q12 O. C. P
IC2 VCC
IC2 FB
O. V. P
O. H. P
DC-
Main_S_Down_H
AF RESET L
AF_S_Down_H
DC+
T1001
VLT0899
T1002
VLT0900
Q1011
2SK2558-01
Q1012
2SK2558-01
IC1014
PQ30RV31
MA151K-TW
D1052
WITH HEATSYNK
WITH SECOND HEATSYNK
WITH PRI HEATSYNK
D1030
D30SC4M
FMLG12SP
D1031
D1016
FMBG14L
IC1011
UPC1093J
IC1012
UPC1093J
IC1013
UPC393C
Q1014
PS2561L1V1WL
Q1015
Q1013
Q1020
Q1024
UN2214
Q1019
UN2111
Q1018
UN2211
Q1017
UN2214
Q1022
UN2113
Q1023
UN2213
P1012
VJP2824009
1 5V
2 5V
3 5V
4 -5V
5 GND
6 GND
7 GND
8 GND
9 3V
P1014
VJP1243T
1 12V
2 FAN PULSE
3 GND
P1011
VJP2824B003
3 FAN PULSE
2 GND
1 16V
P1013
VJP2824B008
8 -7.5V
7 7.5V
6 -12V
5 12V
4 GND
3 GND
2 GND
1 GND
TO Chassis
VR1001 500
VR1002 500
R1055 VRT0142
R1062 VTR0033

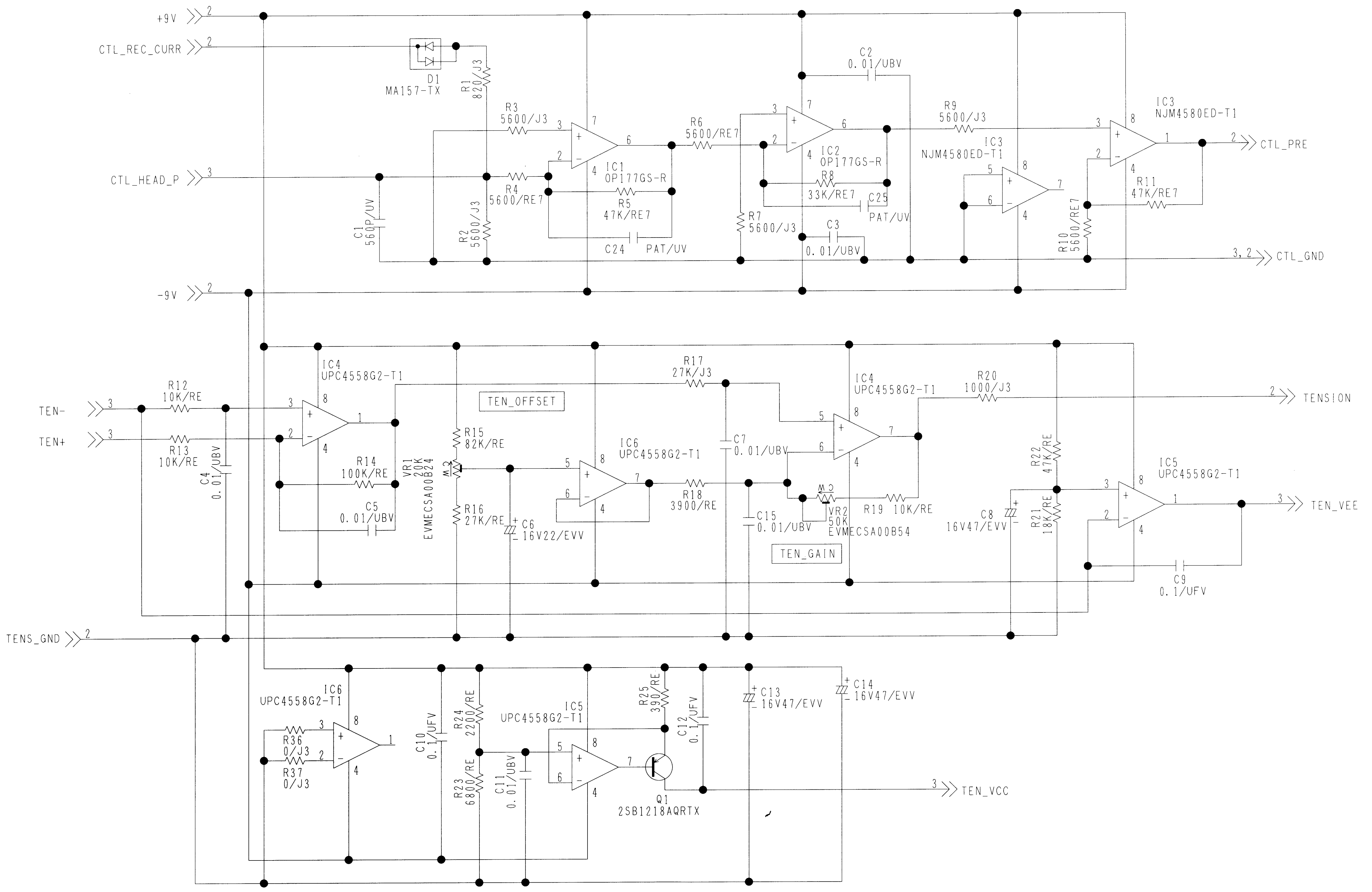
COMPONENT NAME	POWER2		01/02
CIRCUIT BOARD NO.			
VEP81184A			
			SCM241

KR1C80(1/2)-3


C1003
2200P
R1046
330K/J6
2SB709
Q1006
MA151WK-TW
D1001
C1002
2200P
R1047
330K/J6
2SB709
Q1007
C1008
2200P/UBN
D1009
MA153-TW
R1097
22K/J6
Q1004
2SB710
R1026
68K/J6
R1042
330K/J6
47K/J6
R1048
D1020
MA151K-TX
R1049
D1021
47K/J6
MA151K-TX
R1035
*PAT
D1003
*PAT
MA151K-TW
D1022
Q1005
UN2213
C1027
0.1/ZFN
C1006
0.1/ZFN
C1026
0.47/ZFN
R1036
100K/J6
C1007
0.1/ZFN
D1004
MA151K-TW
D1005
MA151WK-TX
D1018
MA3051-MTX
D1019
MA3051-MTX
R1013
100K/J6
C1024
0.1/ZFN
R1012
100K/J6
Q1003
2SD1478
470P(G)
C1016
C1017
0.1/KBN
R1018
2.2M
C1011
50V1U(NXL)
D1023
MA3051-MTX
R1007
1M/J6
Q1002
2SD1478
R1010
100K/J6
R1028
4700(D)
C1018
0.1(K)
R1029
220/J6
R1030
470(D)
C1019
5600P/UBN
IC1001
FA5311BP
CS
CT
VCC
OUT
FB
IS+
GND
MA3240-HTX
D1012
R1024
150K(1/2W)
R1023
150K(1/2W)
U1GU44
D1013
D1010
U1GU44
R1020
10(1/4W)
4.7(1/4W)
R1009
C1009
50V22U(NXL)
R1014
150K
D1007
MA3082-HTX
D1008
MA3051-MTX
C1015
3300P/UBN
R1011
240(D)
R1034
150K(1/2W)
R1033
150K(1/2W)
D1015
MA3240-HTX
R1027
56K/J6
D1017
U1GU44
R1016
4.7(1/4W)
R1031
10(1/4W)
470P(G)
C1021
C1020
0.1/KBN
R1019
2.2M
C1013
50V1U(NXL)
D1024
MA3051-MTX
IC1002
FA5311BP
C1010
50V22U(NXL)
R1089
150K
(1/4W)
R1017
240(D)
D1014
U1GU44
R1008
1M/J6
R1037
4700(D)
C1023
0.1(K)
R1038
470/J6
R1039
680(D)
C1022
5600P/UBN
C1012
3300P/UBN
DC-
Q11_GATE
Q11_O.C.P
IC1_VCC
IC1_FB
Q12_GATE
Q12_O.C.P
IC2_VCC
IC2_FB
O.V.P
O.H.P
DC-
Main_S_Down_H
AF_RESET_H
AF_S_Down_H
DC+
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

COMPONENT NAME	POWER2	02/02
CIRCUIT BOARD NO.		
VEP81184A		
		SCM242

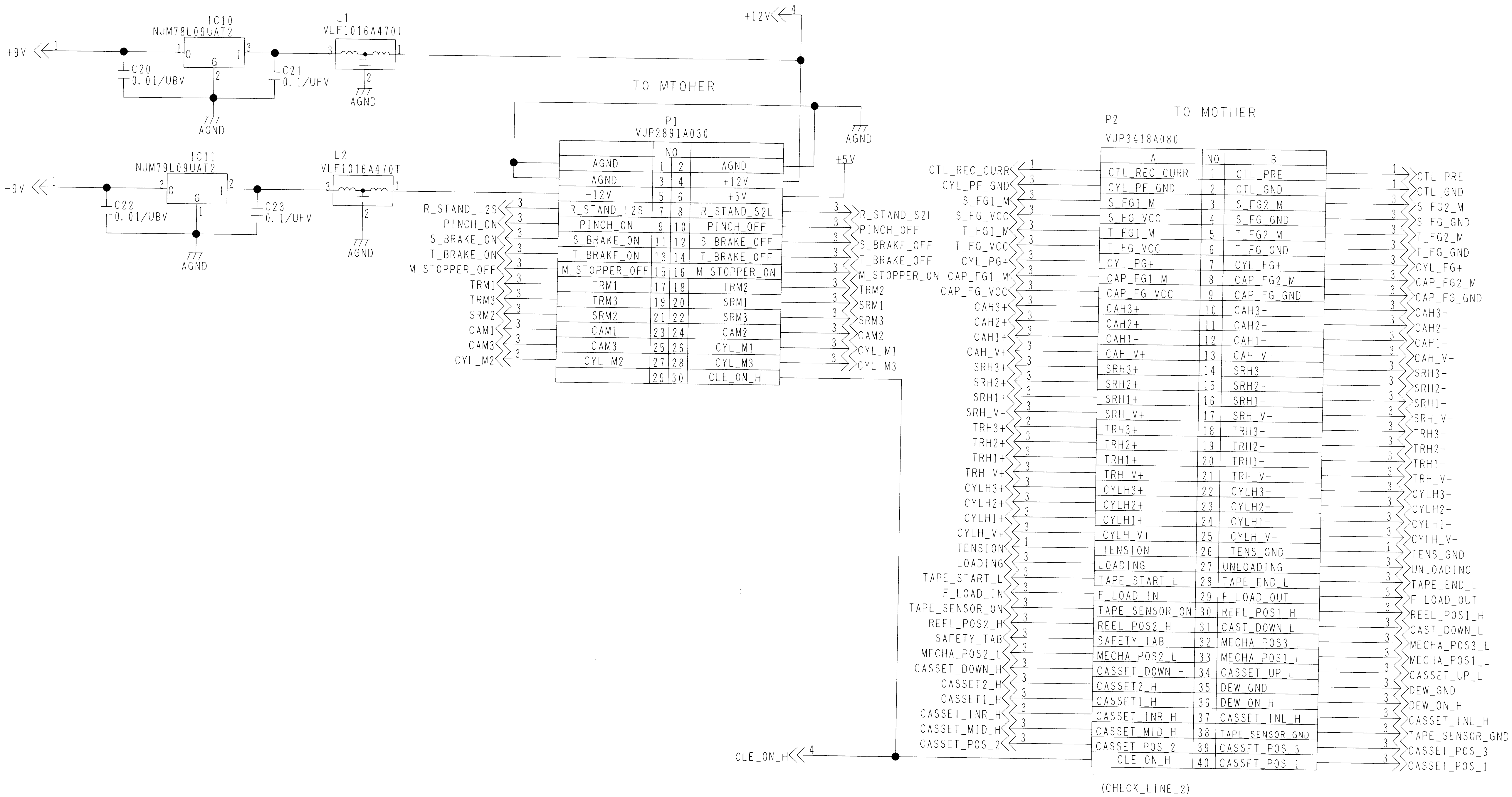
KR1C80(2/2)-3


+9V
CTL_REC_CURR
CTL_HEAD_P
-9V
D1
MA157-TX
R1
820/J3
R3
5600/J3
R2
5600/J3
R4
5600/RE7
R5
47K/RE7
C1
560P/UV
C24
PAT/UV
IC1
OP177GS-R
R6
5600/RE7
C2
0.01/UBV
IC2
OP177GS-R
R8
33K/RE7
C25
PAT/UV
R7
5600/J3
C3
0.01/UBV
R9
5600/J3
IC3
NJM4580ED-T1
IC3
NJM4580ED-T1
R10
5600/RE7
R11
47K/RE7
CTL_PRE
CTL_GND
TEN-
TEN+
TENS_GND
R12
10K/RE
R13
10K/RE
C4
0.01/UBV
IC4
UPC4558G2-T1
R14
100K/RE
C5
0.01/UBV
VR1
20K
EVMECSA00B24
TEN_OFFSET
R15
82K/RE
R16
27K/RE
C6
16V22/EVV
IC6
UPC4558G2-T1
R17
27K/J3
C7
0.01/UBV
R18
3900/RE
C15
0.01/UBV
VR2
50K
EVMECSA00B54
TEN_GAIN
IC4
UPC4558G2-T1
R19 10K/RE
R20
1000/J3
TENSION
R22
47K/RE
R21
18K/RE
C8
16V47/EVV
IC5
UPC4558G2-T1
C9
0.1/UFV
TEN_VEE
IC6
UPC4558G2-T1
R36
0/J3
R37
0/J3
C10
0.1/UFV
R24
2200/RE
R23
6800/RE
C11
0.01/UBV
IC5
UPC4558G2-T1
Q1
2SB1218AQRTX
R25
390/RE
C12
0.1/UFV
C13
16V47/EVV
C14
16V47/EVV
TEN_VCC

COMPONENT NAME: MECHA_I/F — 01/04

CIRCUIT BOARD NO.: VEP82216B

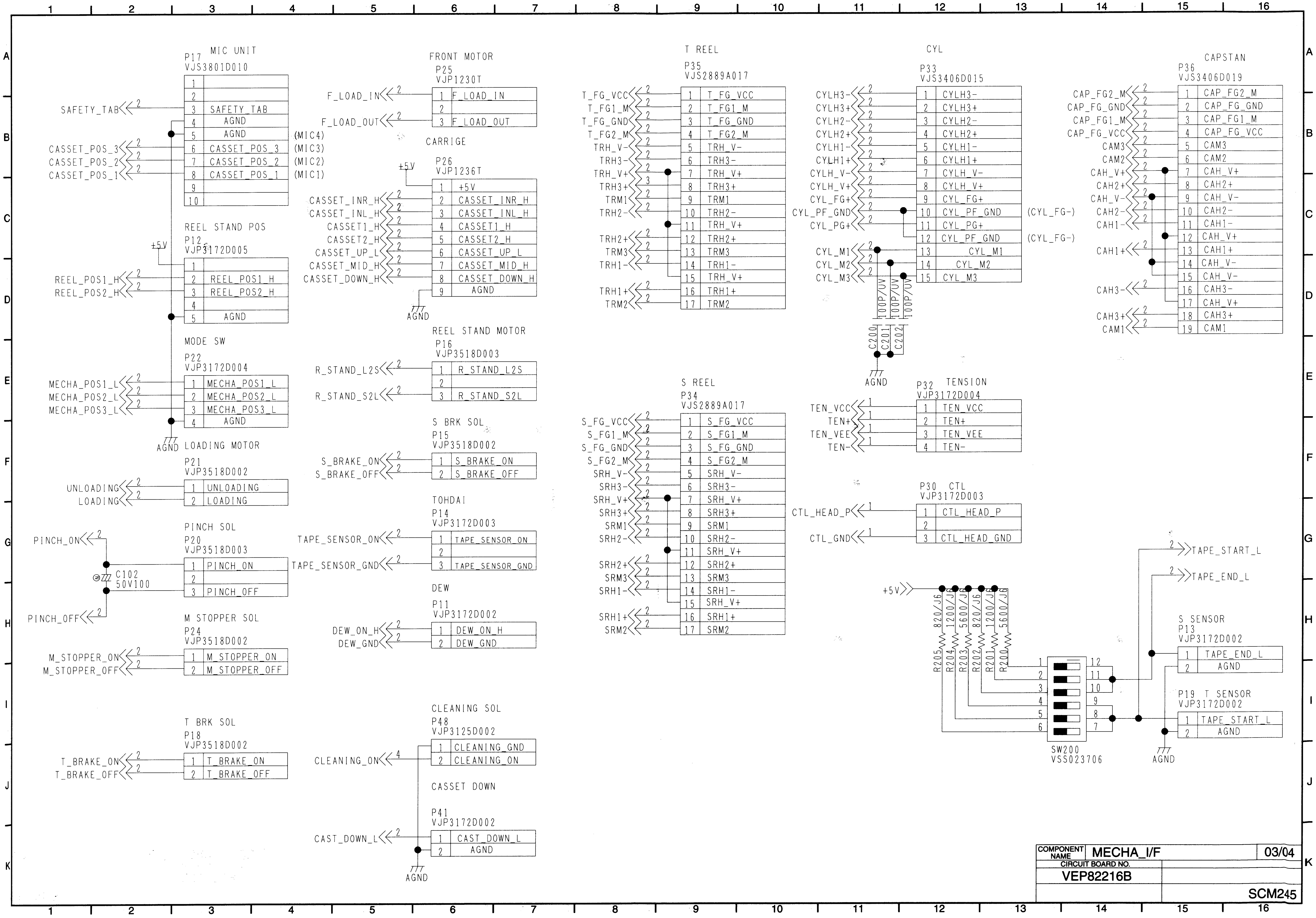
SCM243



TO MTOHER
TO MOTHER
IC10
NJM78L09UAT2
IC11
NJM79L09UAT2
L1
VLF1016A470T
L2
VLF1016A470T
+9V
-9V
+12V
+5V
C20
0.01/UBV
C21
0.1/UFV
C22
0.01/UBV
C23
0.1/UFV
AGND
P1
VJP2891A030
NO
AGND 1 2 AGND
AGND 3 4 +12V
-12V 5 6 +5V
R_STAND_L2S 7 8 R_STAND_S2L
PINCH_ON 9 10 PINCH_OFF
S_BRAKE_ON 11 12 S_BRAKE_OFF
T_BRAKE_ON 13 14 T_BRAKE_OFF
M_STOPPER_OFF 15 16 M_STOPPER_ON
TRM1 17 18 TRM2
TRM3 19 20 SRM1
SRM2 21 22 SRM3
CAM1 23 24 CAM2
CAM3 25 26 CYL_M1
CYL_M2 27 28 CYL_M3
29 30 CLE_ON_H
CLE_ON_H
P2
VJP3418A080
A NO B
CTL_REC_CURR 1 CTL_PRE
CYL_PF_GND 2 CTL_GND
S_FG1_M 3 S_FG2_M
S_FG_VCC 4 S_FG_GND
T_FG1_M 5 T_FG2_M
T_FG_VCC 6 T_FG_GND
CYL_PG+ 7 CYL_FG+
CAP_FG1_M 8 CAP_FG2_M
CAP_FG_VCC 9 CAP_FG_GND
CAH3+ 10 CAH3-
CAH2+ 11 CAH2-
CAH1+ 12 CAH1-
CAH_V+ 13 CAH_V-
SRH3+ 14 SRH3-
SRH2+ 15 SRH2-
SRH1+ 16 SRH1-
SRH_V+ 17 SRH_V-
TRH3+ 18 TRH3-
TRH2+ 19 TRH2-
TRH1+ 20 TRH1-
TRH_V+ 21 TRH_V-
CYLH3+ 22 CYLH3-
CYLH2+ 23 CYLH2-
CYLH1+ 24 CYLH1-
CYLH_V+ 25 CYLH_V-
TENSION 26 TENS_GND
LOADING 27 UNLOADING
TAPE_START_L 28 TAPE_END_L
F_LOAD_IN 29 F_LOAD_OUT
TAPE_SENSOR_ON 30 REEL_POS1_H
REEL_POS2_H 31 CAST_DOWN_L
SAFETY_TAB 32 MECHA_POS3_L
MECHA_POS2_L 33 MECHA_POS1_L
CASSET_DOWN_H 34 CASSET_UP_L
CASSET2_H 35 DEW_GND
CASSET1_H 36 DEW_ON_H
CASSET_INR_H 37 CASSET_INL_H
CASSET_MID_H 38 TAPE_SENSOR_GND
CASSET_POS_2 39 CASSET_POS_3
CLE_ON_H 40 CASSET_POS_1
(CHECK_LINE_2)

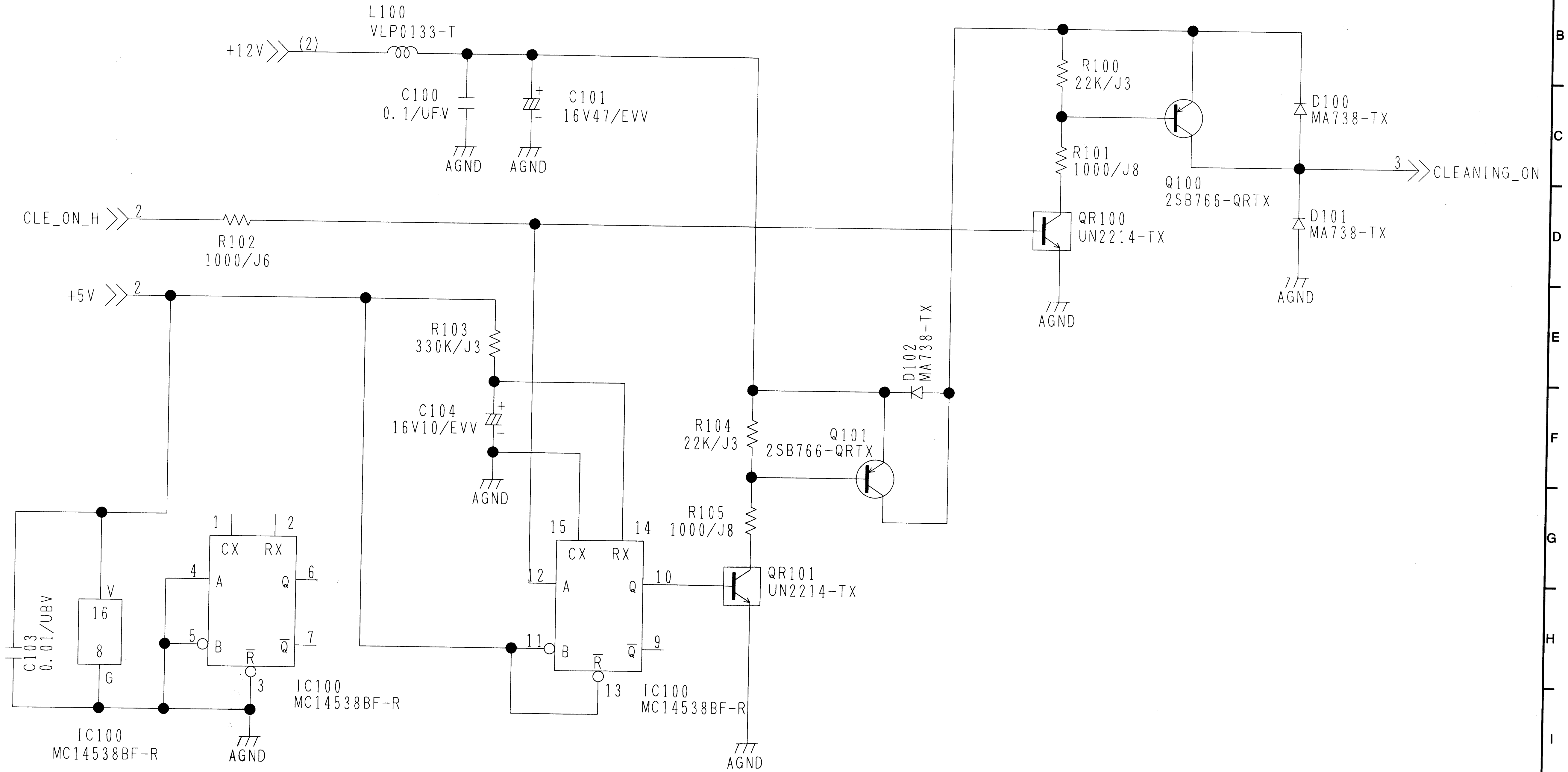
COMPONENT NAME	MECHA_I/F	02/04
CIRCUIT BOARD NO.		
VEP82216B		
		SCM244

KR2C31(2/4)


MIC UNIT
P17
VJS3801D010
SAFETY_TAB
AGND
CASSET_POS_3
CASSET_POS_2
CASSET_POS_1
(MIC4)
(MIC3)
(MIC2)
(MIC1)
REEL STAND POS
P12
VJP3172D005
+5V
REEL_POS1_H
REEL_POS2_H
MODE SW
P22
VJP3172D004
MECHA_POS1_L
MECHA_POS2_L
MECHA_POS3_L
LOADING MOTOR
P21
VJP3518D002
UNLOADING
LOADING
PINCH SOL
P20
VJP3518D003
PINCH_ON
PINCH_OFF
C102
50V100
M STOPPER SOL
P24
VJP3518D002
M_STOPPER_ON
M_STOPPER_OFF
T BRK SOL
P18
VJP3518D002
T_BRAKE_ON
T_BRAKE_OFF
FRONT MOTOR
P25
VJP1230T
F_LOAD_IN
F_LOAD_OUT
CARRIGE
P26
VJP1236T
CASSET_INR_H
CASSET_INL_H
CASSET1_H
CASSET2_H
CASSET_UP_L
CASSET_MID_H
CASSET_DOWN_H
REEL STAND MOTOR
P16
VJP3518D003
R_STAND_L2S
R_STAND_S2L
S BRK SOL
P15
VJP3518D002
S_BRAKE_ON
S_BRAKE_OFF
TOHDAI
P14
VJP3172D003
TAPE_SENSOR_ON
TAPE_SENSOR_GND
DEW
P11
VJP3172D002
DEW_ON_H
DEW_GND
CLEANING SOL
P48
VJP3125D002
CLEANING_GND
CLEANING_ON
CASSET DOWN
P41
VJP3172D002
CAST_DOWN_L
T REEL
P35
VJS2889A017
T_FG_VCC
T_FG1_M
T_FG_GND
T_FG2_M
TRH_V-
TRH3-
TRH_V+
TRH3+
TRM1
TRH2-
TRH2+
TRM3
TRH1-
TRH1+
TRM2
S REEL
P34
VJS2889A017
S_FG_VCC
S_FG1_M
S_FG_GND
S_FG2_M
SRH_V-
SRH3-
SRH_V+
SRH3+
SRM1
SRH2-
SRH2+
SRM3
SRH1-
SRH1+
SRM2
CYL
P33
VJS3406D015
CYLH3-
CYLH3+
CYLH2-
CYLH2+
CYLH1-
CYLH1+
CYLH_V-
CYLH_V+
CYL_FG+
CYL_PF_GND
CYL_PG+
CYL_M1
CYL_M2
CYL_M3
(CYL_FG-)
100P/UV
C200
C201
C202
TENSION
P32
VJP3172D004
TEN_VCC
TEN+
TEN_VEE
TEN-
P30 CTL
VJP3172D003
CTL_HEAD_P
CTL_GND
CTL_HEAD_GND
CAPSTAN
P36
VJS3406D019
CAP_FG2_M
CAP_FG_GND
CAP_FG1_M
CAP_FG_VCC
CAM3
CAM2
CAH_V+
CAH2+
CAH_V-
CAH2-
CAH1-
CAH1+
CAH3-
CAH3+
CAM1
TAPE_START_L
TAPE_END_L
+5V
820/J6
1200/J6
5600/J6
R205
R204
R203
R202
R201
R200
SW200
VSS023706
S SENSOR
P13
VJP3172D002
TAPE_END_L
P19 T SENSOR
VJP3172D002
TAPE_START_L
AGND

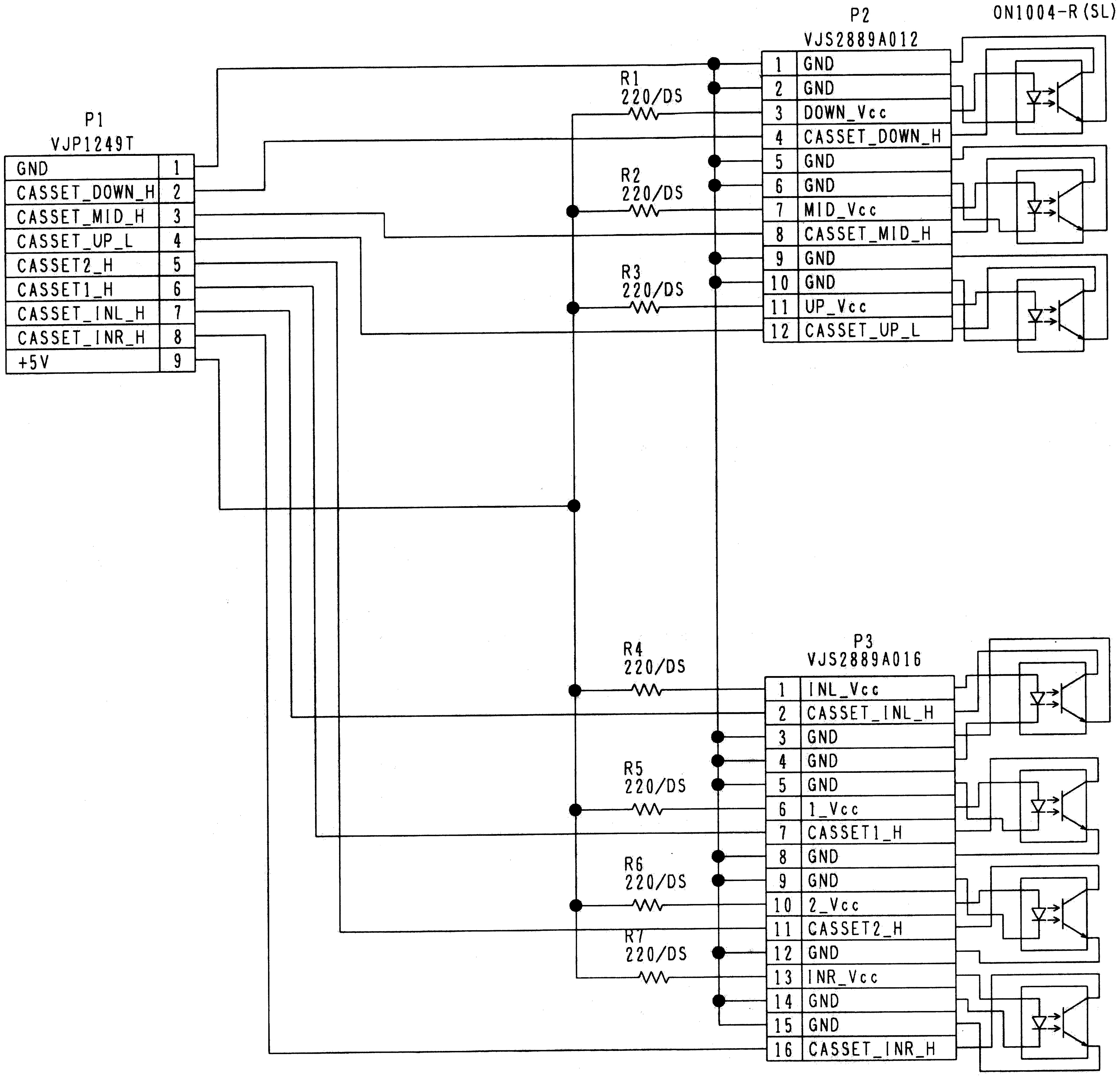
COMPONENT NAME MECHA_I/F 03/04
CIRCUIT BOARD NO.
VEP82216B
SCM245

KR2C31(3/4)

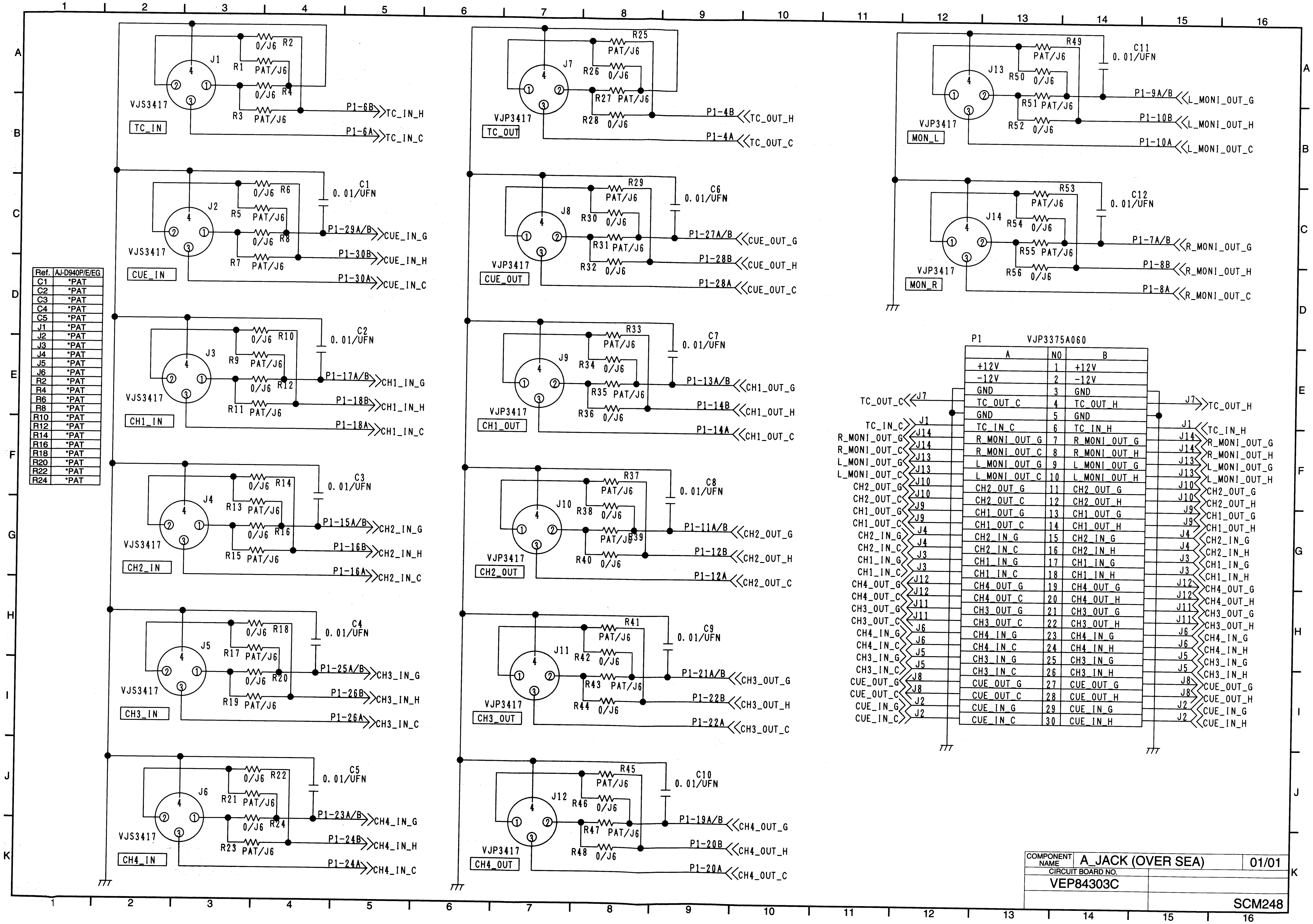

+12V
(2)
L100
VLP0133-T
C100
0.1/UFV
C101
16V47/EVV
AGND
CLE_ON_H
2
R102
1000/J6
+5V
R103
330K/J3
C104
16V10/EVV
R100
22K/J3
Q100
2SB766-QRTX
R101
1000/J8
QR100
UN2214-TX
D100
MA738-TX
D101
MA738-TX
3
CLEANING_ON
D102
MA738-TX
R104
22K/J3
Q101
2SB766-QRTX
R105
1000/J8
QR101
UN2214-TX
C103
0.01/UBV
V
16
8
G
IC100
MC14538BF-R
CX
RX
A
B
Q
R̄
Q̄
1
2
3
4
5
6
7
9
10
11
12
13
14
15

COMPONENT NAME	MECHA_I/F	04/04
CIRCUIT BOARD NO.		
VEP82216B		
		SCM246

KR2C31(4/4)


P2
VJS2889A012
ON1004-R(SL)
1 GND
2 GND
3 DOWN_Vcc
4 CASSET_DOWN_H
5 GND
6 GND
7 MID_Vcc
8 CASSET_MID_H
9 GND
10 GND
11 UP_Vcc
12 CASSET_UP_L
R1
220/DS
R2
220/DS
R3
220/DS
P1
VJP1249T
GND 1
CASSET_DOWN_H 2
CASSET_MID_H 3
CASSET_UP_L 4
CASSET2_H 5
CASSET1_H 6
CASSET_INL_H 7
CASSET_INR_H 8
+5V 9
R4
220/DS
R5
220/DS
R6
220/DS
R7
220/DS
P3
VJS2889A016
1 INL_Vcc
2 CASSET_INL_H
3 GND
4 GND
5 GND
6 1_Vcc
7 CASSET1_H
8 GND
9 GND
10 2_Vcc
11 CASSET2_H
12 GND
13 INR_Vcc
14 GND
15 GND
16 CASSET_INR_H

COMPONENT NAME	CARRIAGE	01/01
CIRCUIT BOARD NO.		
VEP80856A		
		SCM247


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K
J1 VJS3417 TC_IN R1 R2 R3 R4 0/J6 PAT/J6 P1-6B TC_IN_H P1-6A TC_IN_C
J2 VJS3417 CUE_IN R5 R6 R7 R8 C1 0.01/UFN P1-29A/B CUE_IN_G P1-30B CUE_IN_H P1-30A CUE_IN_C
J3 VJS3417 CH1_IN R9 R10 R11 R12 C2 0.01/UFN P1-17A/B CH1_IN_G P1-18B CH1_IN_H P1-18A CH1_IN_C
J4 VJS3417 CH2_IN R13 R14 R15 R16 C3 0.01/UFN P1-15A/B CH2_IN_G P1-16B CH2_IN_H P1-16A CH2_IN_C
J5 VJS3417 CH3_IN R17 R18 R19 R20 C4 0.01/UFN P1-25A/B CH3_IN_G P1-26B CH3_IN_H P1-26A CH3_IN_C
J6 VJS3417 CH4_IN R21 R22 R23 R24 C5 0.01/UFN P1-23A/B CH4_IN_G P1-24B CH4_IN_H P1-24A CH4_IN_C
J7 VJP3417 TC_OUT R25 R26 R27 R28 P1-4B TC_OUT_H P1-4A TC_OUT_C
J8 VJP3417 CUE_OUT R29 R30 R31 R32 C6 0.01/UFN P1-27A/B CUE_OUT_G P1-28B CUE_OUT_H P1-28A CUE_OUT_C
J9 VJP3417 CH1_OUT R33 R34 R35 R36 C7 0.01/UFN P1-13A/B CH1_OUT_G P1-14B CH1_OUT_H P1-14A CH1_OUT_C
J10 VJP3417 CH2_OUT R37 R38 R39 R40 C8 0.01/UFN P1-11A/B CH2_OUT_G P1-12B CH2_OUT_H P1-12A CH2_OUT_C
J11 VJP3417 CH3_OUT R41 R42 R43 R44 C9 0.01/UFN P1-21A/B CH3_OUT_G P1-22B CH3_OUT_H P1-22A CH3_OUT_C
J12 VJP3417 CH4_OUT R45 R46 R47 R48 C10 0.01/UFN P1-19A/B CH4_OUT_G P1-20B CH4_OUT_H P1-20A CH4_OUT_C
J13 VJP3417 MON_L R49 R50 R51 R52 C11 0.01/UFN P1-9A/B L_MONI_OUT_G P1-10B L_MONI_OUT_H P1-10A L_MONI_OUT_C
J14 VJP3417 MON_R R53 R54 R55 R56 C12 0.01/UFN P1-7A/B R_MONI_OUT_G P1-8B R_MONI_OUT_H P1-8A R_MONI_OUT_C
TC_OUT_C J7 TC_IN_C J1 R_MONI_OUT_G J14 R_MONI_OUT_C J14 L_MONI_OUT_G J13 L_MONI_OUT_C J13 CH2_OUT_G J10 CH2_OUT_C J10 CH1_OUT_G J9 CH1_OUT_C J9 CH2_IN_G J4 CH2_IN_C J4 CH1_IN_G J3 CH1_IN_C J3 CH4_OUT_G J12 CH4_OUT_C J12 CH3_OUT_G J11 CH3_OUT_C J11 CH4_IN_G J6 CH4_IN_C J6 CH3_IN_G J5 CH3_IN_C J5 CUE_OUT_G J8 CUE_OUT_C J8 CUE_IN_G J2 CUE_IN_C J2
J7 TC_OUT_H J1 TC_IN_H J14 R_MONI_OUT_G J14 R_MONI_OUT_H J13 L_MONI_OUT_G J13 L_MONI_OUT_H J10 CH2_OUT_G J10 CH2_OUT_H J9 CH1_OUT_G J9 CH1_OUT_H J4 CH2_IN_G J4 CH2_IN_H J3 CH1_IN_G J3 CH1_IN_H J12 CH4_OUT_G J12 CH4_OUT_H J11 CH3_OUT_G J11 CH3_OUT_H J6 CH4_IN_G J6 CH4_IN_H J5 CH3_IN_G J5 CH3_IN_H J8 CUE_OUT_G J8 CUE_OUT_H J2 CUE_IN_G J2 CUE_IN_H

Ref.	AJ-D940P/E/EG
C1	*PAT
C2	*PAT
C3	*PAT
C4	*PAT
C5	*PAT
J1	*PAT
J2	*PAT
J3	*PAT
J4	*PAT
J5	*PAT
J6	*PAT
R2	*PAT
R4	*PAT
R6	*PAT
R8	*PAT
R10	*PAT
R12	*PAT
R14	*PAT
R16	*PAT
R18	*PAT
R20	*PAT
R22	*PAT
R24	*PAT

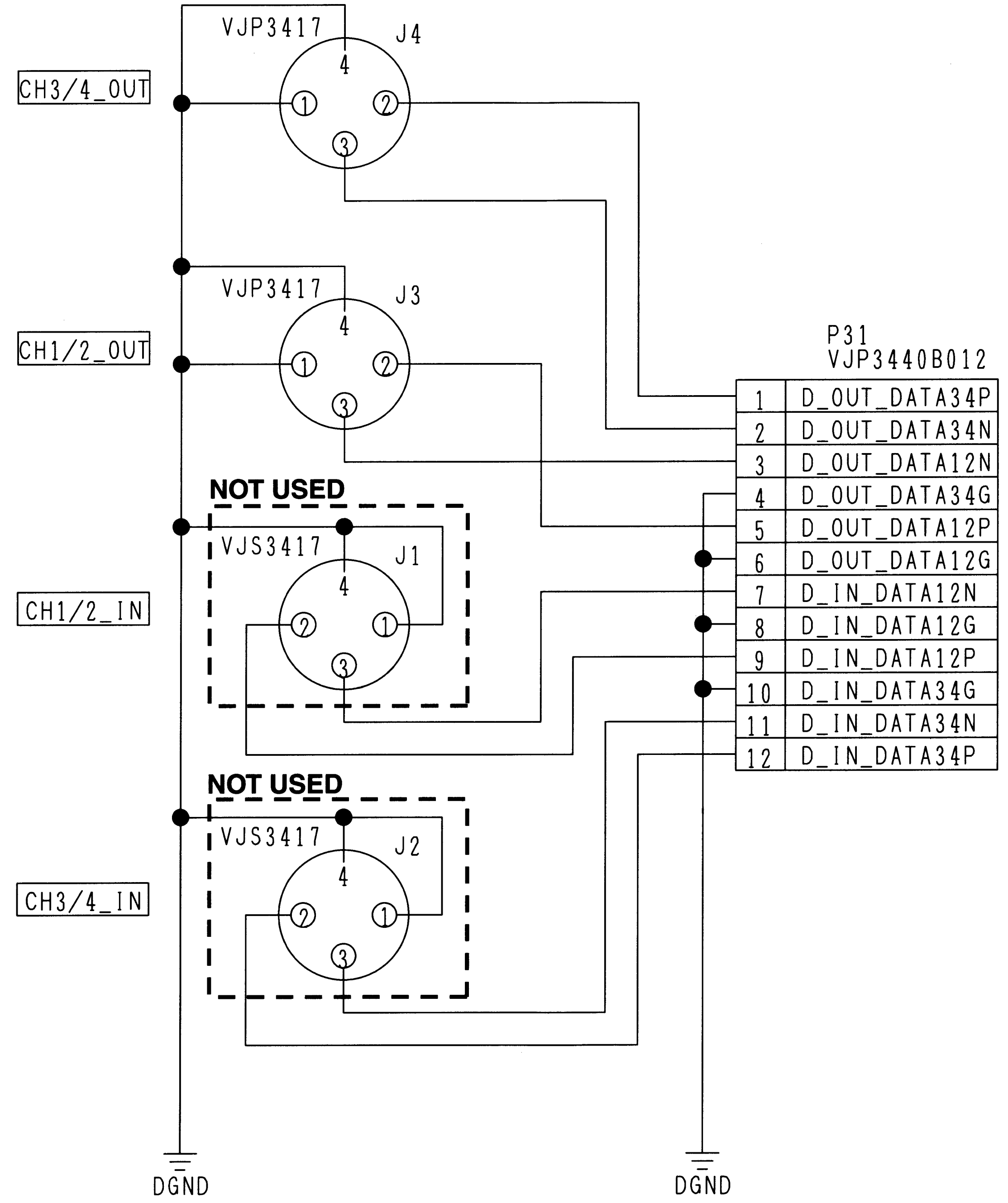
P1 VJP3375A060

A	NO	B
+12V	1	+12V
-12V	2	-12V
GND	3	GND
TC_OUT_C	4	TC_OUT_H
GND	5	GND
TC_IN_C	6	TC_IN_H
R_MONI_OUT_G	7	R_MONI_OUT_G
R_MONI_OUT_C	8	R_MONI_OUT_H
L_MONI_OUT_G	9	L_MONI_OUT_G
L_MONI_OUT_C	10	L_MONI_OUT_H
CH2_OUT_G	11	CH2_OUT_G
CH2_OUT_C	12	CH2_OUT_H
CH1_OUT_G	13	CH1_OUT_G
CH1_OUT_C	14	CH1_OUT_H
CH2_IN_G	15	CH2_IN_G
CH2_IN_C	16	CH2_IN_H
CH1_IN_G	17	CH1_IN_G
CH1_IN_C	18	CH1_IN_H
CH4_OUT_G	19	CH4_OUT_G
CH4_OUT_C	20	CH4_OUT_H
CH3_OUT_G	21	CH3_OUT_G
CH3_OUT_C	22	CH3_OUT_H
CH4_IN_G	23	CH4_IN_G
CH4_IN_C	24	CH4_IN_H
CH3_IN_G	25	CH3_IN_G
CH3_IN_C	26	CH3_IN_H
CUE_OUT_G	27	CUE_OUT_G
CUE_OUT_C	28	CUE_OUT_H
CUE_IN_G	29	CUE_IN_G
CUE_IN_C	30	CUE_IN_H

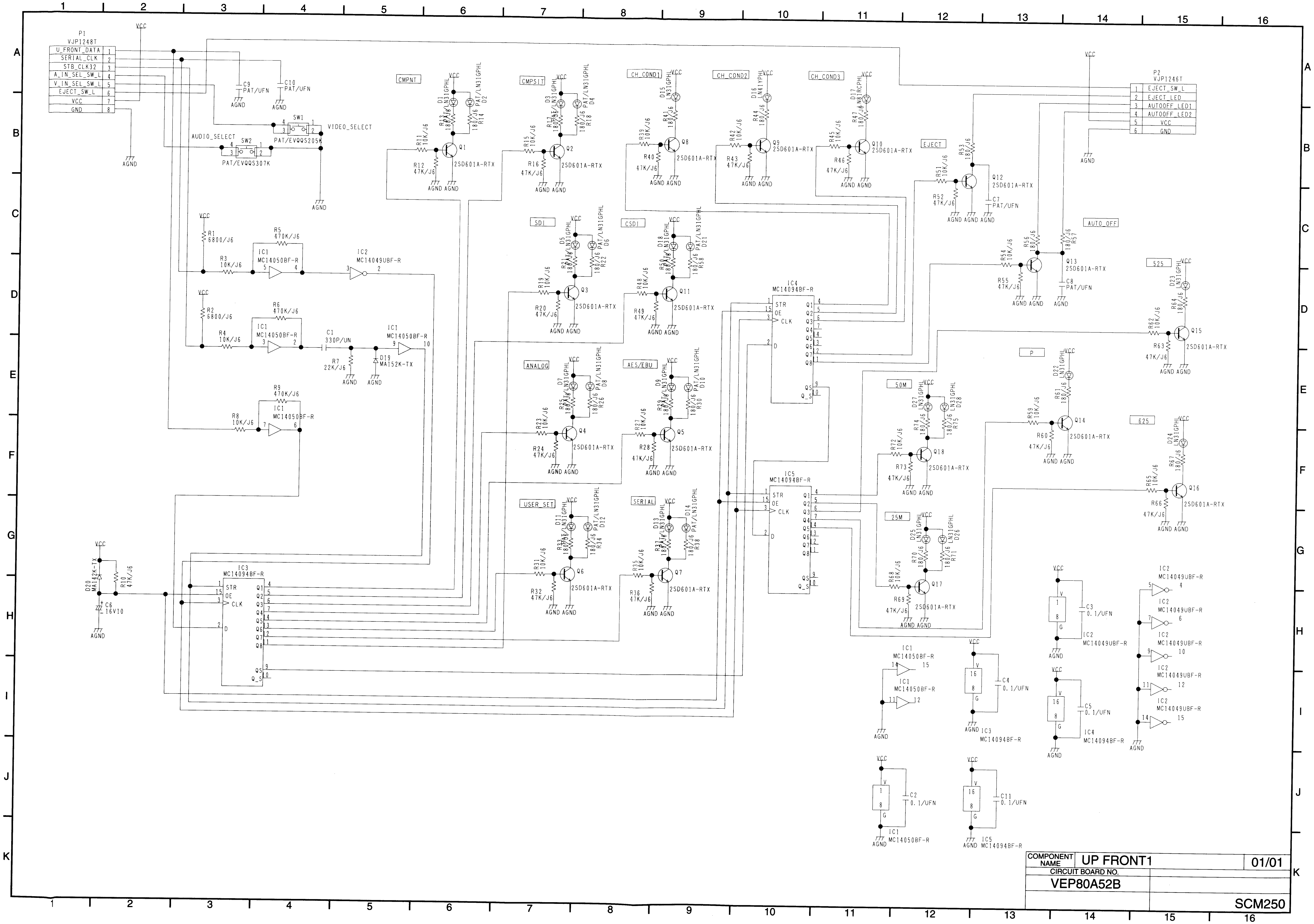
COMPONENT NAME	A_JACK (OVER SEA)	01/01
CIRCUIT BOARD NO.		
VEP84303C		
		SCM248

KR4G84-1(1/1)

KR4F73-1(1/1)


VJP3417
J4
CH3/4_OUT
VJP3417
J3
CH1/2_OUT
NOT USED
VJS3417
J1
CH1/2_IN
NOT USED
VJS3417
J2
CH3/4_IN
P31
VJP3440B012
1 D_OUT_DATA34P
2 D_OUT_DATA34N
3 D_OUT_DATA12N
4 D_OUT_DATA34G
5 D_OUT_DATA12P
6 D_OUT_DATA12G
7 D_IN_DATA12N
8 D_IN_DATA12G
9 D_IN_DATA12P
10 D_IN_DATA34G
11 D_IN_DATA34N
12 D_IN_DATA34P
DGND
DGND

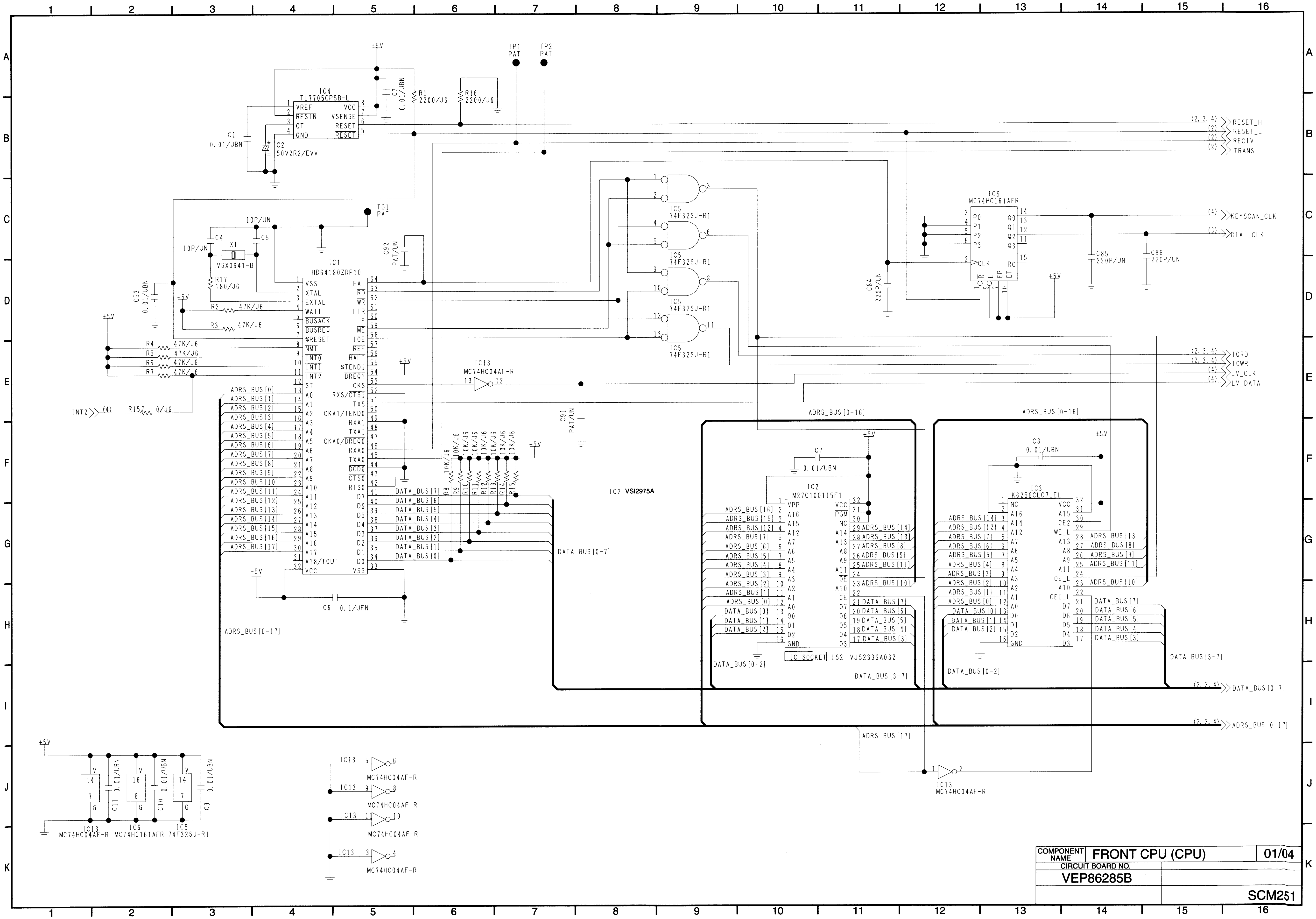
COMPONENT NAME	AES / EBU	01/01
CIRCUIT BOARD NO.		
VEP84304B		
		SCM249



P1
VJP1248T
U_FRONT_DATA
SERIAL_CLK
STB_CLK32
A_IN_SEL_SW_L
V_IN_SEL_SW_L
EJECT_SW_L
VCC
GND
AGND
C9 PAT/UFN
C10 PAT/UFN
SW1
VIDEO_SELECT
PAT/EVQQS205K
AUDIO_SELECT
SW2
PAT/EVQQS307K
R1 6800/J6
R2 6800/J6
R3 10K/J6
R4 10K/J6
R5 470K/J6
R6 470K/J6
R7 22K/J6
R8 10K/J6
R9 470K/J6
R10 47K/J6
IC1 MC14050BF-R
IC2 MC14049UBF-R
C1 330P/UN
D19 MA152K-TX
D20 MA142K-TX
C6 16V10
IC3 MC14094BF-R
IC4 MC14094BF-R
IC5 MC14094BF-R
STR
OE
CLK
D
QS
Q_S
CMPNT
CMPSIT
CH_COND1
CH_COND2
CH_COND3
EJECT
AUTO_OFF
SDI
CSDI
ANALOG
AES/EBU
USER_SET
SERIAL
525
625
P
50M
25M
2SD601A-RTX
LN31GPHL
PAT/LN31GPHL
LN41YPHL
LN81RCPHL
180/J6
10K/J6
47K/J6
P2
VJP1246T
EJECT_SW_L
EJECT_LED
AUTOOFF_LED1
AUTOOFF_LED2
C2 0.1/UFN
C3 0.1/UFN
C4 0.1/UFN
C5 0.1/UFN
C7 PAT/UFN
C8 PAT/UFN
C11 0.1/UFN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

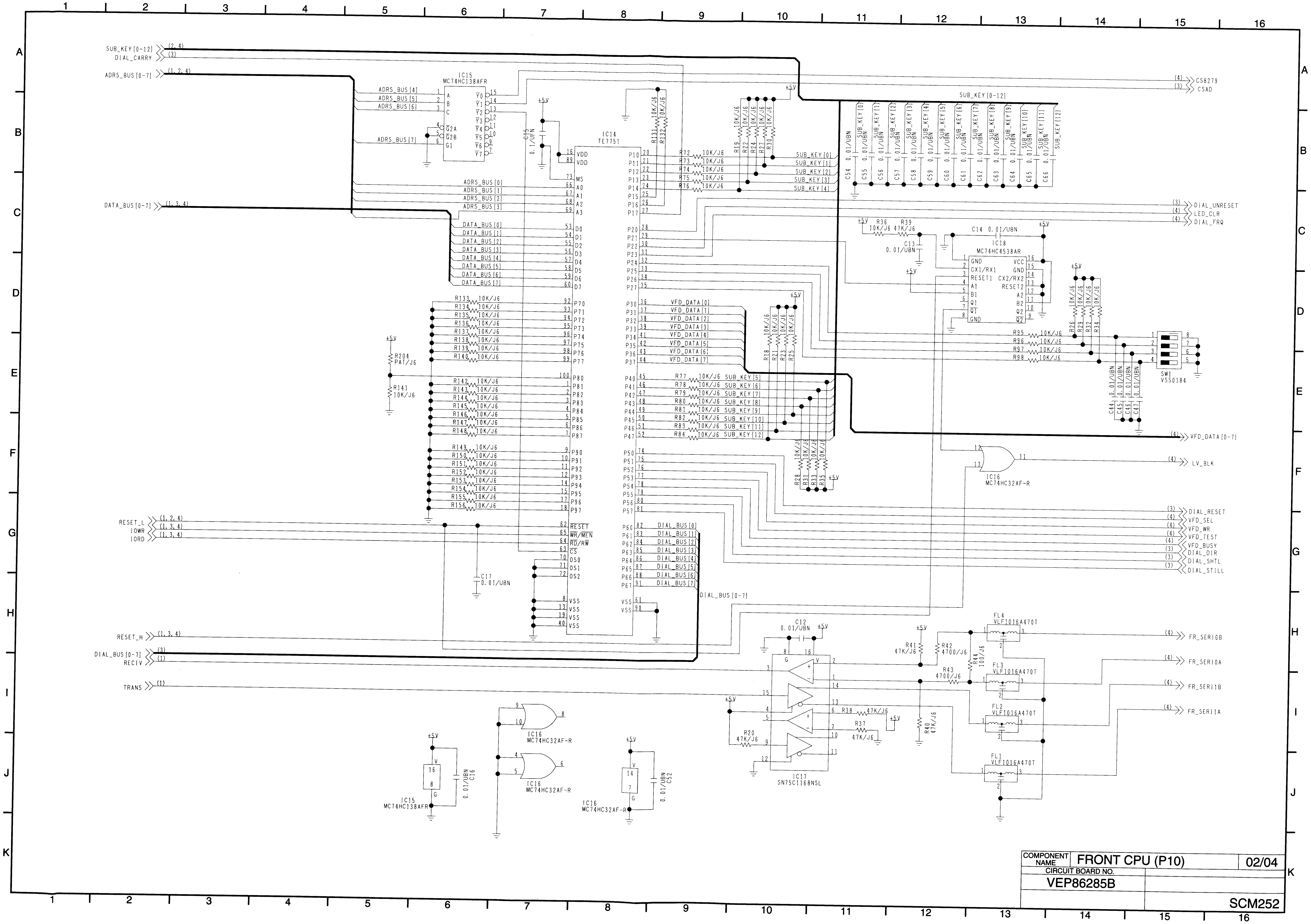
COMPONENT NAME	UP FRONT1	01/01
CIRCUIT BOARD NO.		
VEP80A52B		
		SCM250

KR0M51(1/1)


IC4
TL7705CPSB-L
VREF
RESIN
CT
GND
VCC
VSENSE
RESET
RESET
C1
0.01/UBN
C2
50V2R2/EVV
C3
0.01/UBN
R1
2200/J6
R16
2200/J6
TP1
PAT
TP2
PAT
+5V
RESET_H
RESET_L
RECIV
TRANS
(2,3,4)
(2)
TG1
PAT
10P/UN
C4
C5
10P/UN
X1
VSX0641-B
R17
180/J6
C53
0.01/UBN
C92
PAT/UN
IC1
HD64180ZRP10
VSS
XTAL
EXTAL
WAIT
BUSACK
BUSREQ
%RESET
NMI
INT0
INT1
INT2
ST
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18/TOUT
VCC
FAI
RD
WR
LIR
E
ME
IOE
REF
HALT
%TEND1
DREQ1
CKS
RXS/CTS1
TXS
CKA1/TEND0
RXA1
TXA1
CKA0/DREQ0
RXA0
TXA0
DCD0
CTS0
RTS0
D7
D6
D5
D4
D3
D2
D1
D0
VSS
R2 47K/J6
R3 47K/J6
R4 47K/J6
R5 47K/J6
R6 47K/J6
R7 47K/J6
INT2
(4)
R157 0/J6
ADRS_BUS[0-17]
DATA_BUS[0-7]
C6 0.1/UFN
IC13
MC74HC04AF-R
C91
PAT/UN
R8 R9 R10 R11 R12 R13 R14 R15
10K/J6
IC5
74F32SJ-R1
IC6
MC74HC161AFR
P0 P1 P2 P3
CLK
Q0 Q1 Q2 Q3
RC
KEYSCAN_CLK
DIAL_CLK
C84
220P/UN
C85
220P/UN
C86
220P/UN
IORD
IOWR
LV_CLK
LV_DATA
IC2 VSI2975A
ADRS_BUS[0-16]
C7
0.01/UBN
IC2
M27C100115F1
VPP
PGM
NC
OE
CE
GND
IC SOCKET
IS2 VJS2336A032
DATA_BUS[0-2]
DATA_BUS[3-7]
C8
0.01/UBN
IC3
K6256CLG7LEL
WE_L
OE_L
CE1_L
CE2
ADRS_BUS[17]
ADRS_BUS[0-17]
C11 0.01/UBN
C10 0.01/UBN
C9 0.01/UBN
IC13 MC74HC04AF-R
IC6 MC74HC161AFR
IC5 74F32SJ-R1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

KR6R33(1/4)

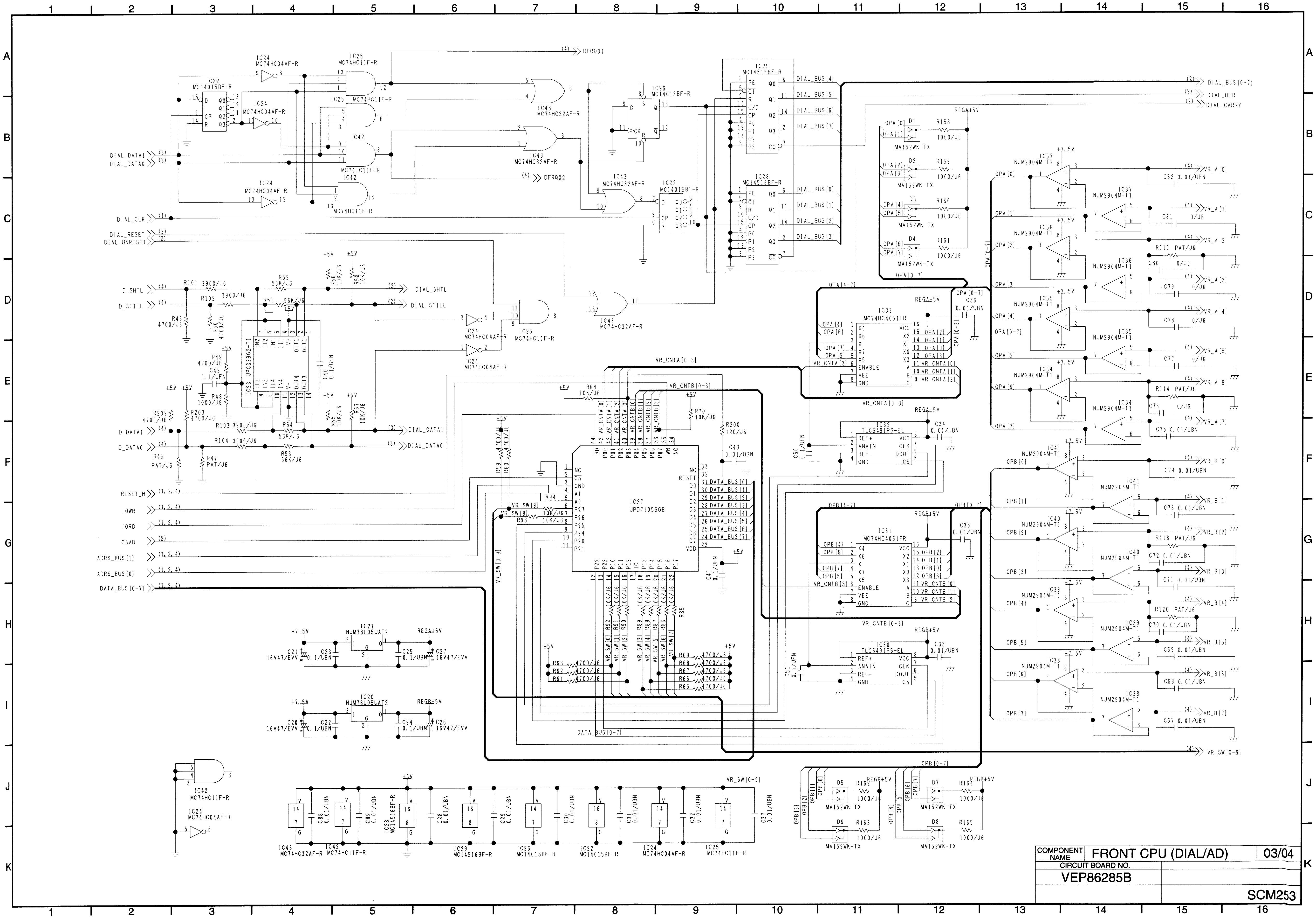
COMPONENT NAME	FRONT CPU (CPU)	01/04
CIRCUIT BOARD NO.		
VEP86285B		
		SCM251


SUB_KEY[0-12]
DIAL_CARRY
ADRS_BUS[0-7]
DATA_BUS[0-7]
IC15
MC74HC138AFR
IC14
TE7751
IC18
MC74HC4538AR
IC16
MC74HC32AF-R
IC17
SN75C1168NSL
SW1
VSS0184
CS8279
CSAD
DIAL_UNRESET
LED_CLR
DIAL_FRQ
VFD_DATA[0-7]
LV_BLK
DIAL_RESET
VFD_SEL
VFD_WR
VFD_TEST
VFD_BUSY
DIAL_DIR
DIAL_SHTL
DIAL_STILL
RESET_L
IOWR
IORD
RESET_H
DIAL_BUS[0-7]
RECIV
TRANS
FR_SERI0B
FR_SERI0A
FR_SERI1B
FR_SERI1A
FL1
FL2
FL3
FL4
VLF1016A470T
+5V

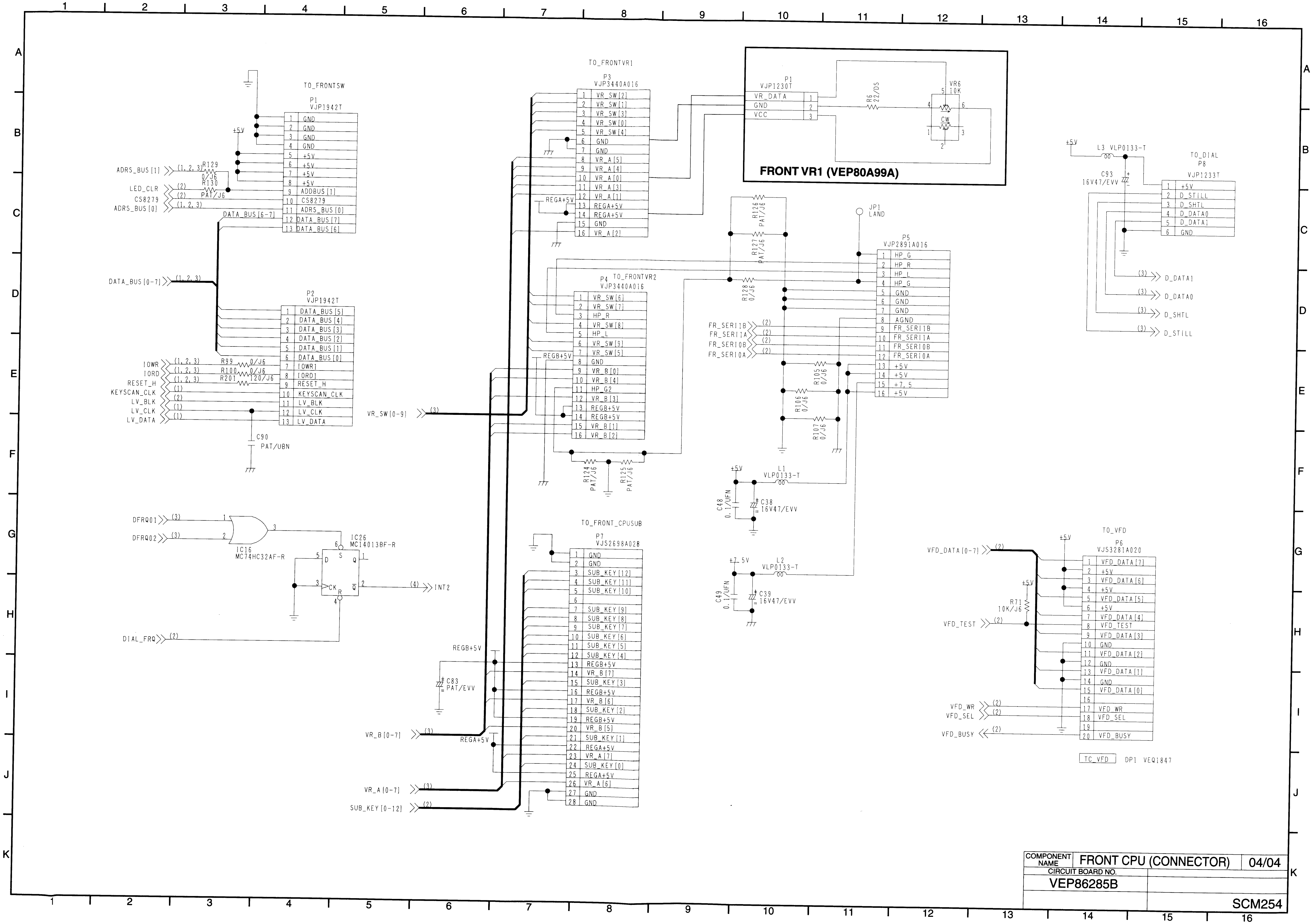
COMPONENT NAME	FRONT CPU (P10)	02/04
CIRCUIT BOARD NO.		
VEP86285B		
		SCM252

KR6R33(2/4)

KR6R33(3/4)

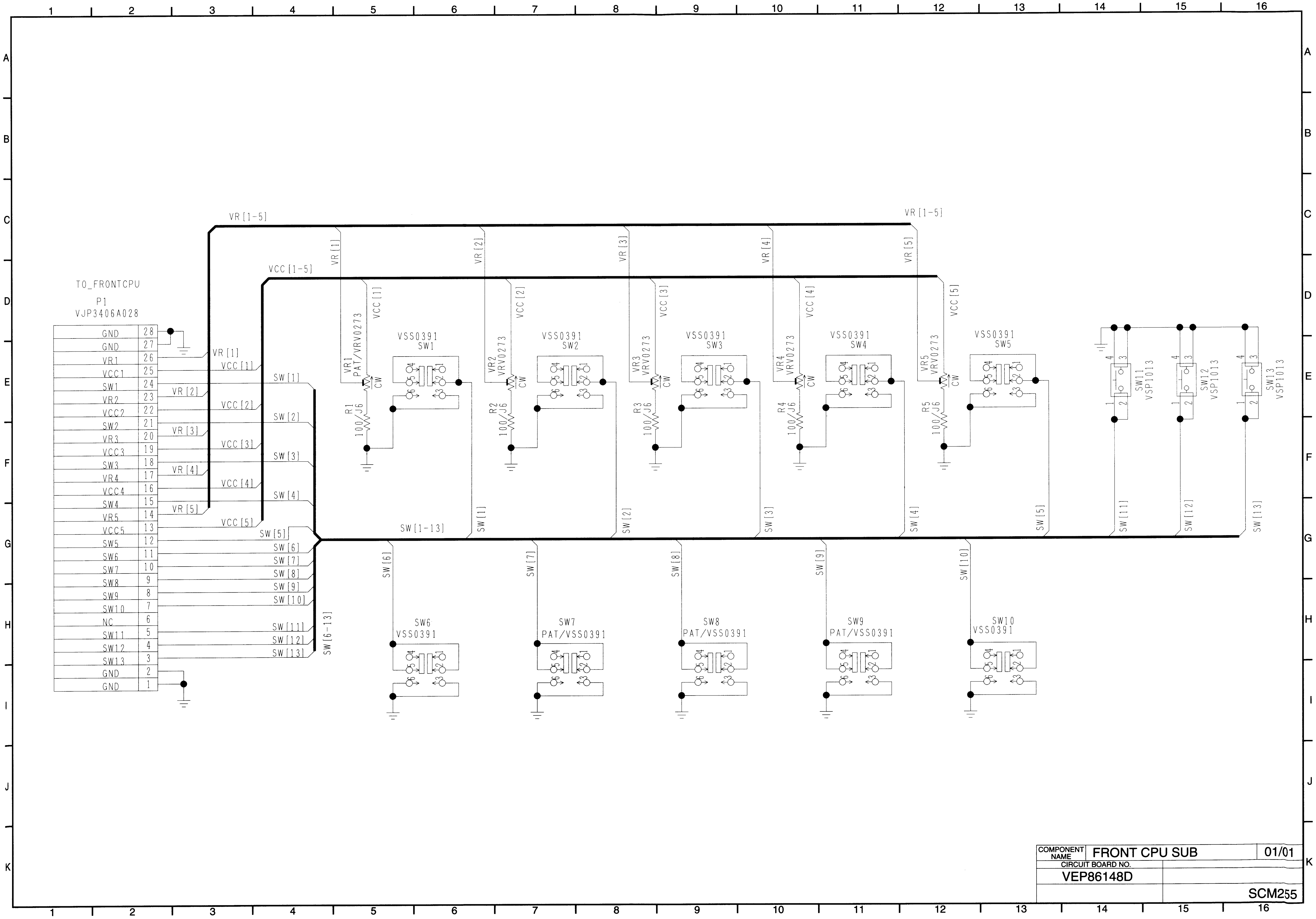

DIAL_DATA1
DIAL_DATA0
DIAL_CLK
DIAL_RESET
DIAL_UNRESET
D_SHTL
D_STILL
D_DATA1
D_DATA0
RESET_H
IOWR
IORD
CSAD
ADRS_BUS[1]
ADRS_BUS[0]
DATA_BUS[0-7]
DFRQ01
DFRQ02
DIAL_SHTL
DIAL_STILL
DIAL_BUS[0-7]
DIAL_DIR
DIAL_CARRY
IC22 MC14015BF-R
IC24 MC74HC04AF-R
IC25 MC74HC11F-R
IC42 MC74HC11F-R
IC43 MC74HC32AF-R
IC26 MC14013BF-R
IC29 MC14516BF-R
IC28 MC14516BF-R
IC23 UPC339G2-T1
IC27 UPD71055GB
IC33 MC74HC4051FR
IC31 MC74HC4051FR
IC32 TLC549IPS-EL
IC30 TLC549IPS-EL
IC34 NJM2904M-T1
IC35 NJM2904M-T1
IC36 NJM2904M-T1
IC37 NJM2904M-T1
IC38 NJM2904M-T1
IC39 NJM2904M-T1
IC40 NJM2904M-T1
IC41 NJM2904M-T1
IC21 NJM78L05UAT2
IC20 NJM78L05UAT2
D1 D2 D3 D4 D5 D6 D7 D8 MA152WK-TX
REGA+5V
REGB+5V
+7.5V
+5V
VR_CNTA[0-3]
VR_CNTB[0-3]
VR_SW[0-9]
VR_A[0]
VR_A[1]
VR_A[2]
VR_A[3]
VR_A[4]
VR_A[5]
VR_A[6]
VR_A[7]
VR_B[0]
VR_B[1]
VR_B[2]
VR_B[3]
VR_B[4]
VR_B[5]
VR_B[6]
VR_B[7]
OPA[0-7]
OPB[0-7]
OPA[4-7]
OPB[4-7]
DATA_BUS[0-7]
R101 3900/J6
R102 3900/J6
R103 3900/J6
R104 3900/J6
R52 56K/J6
R51 56K/J6
R54 56K/J6
R53 56K/J6
R46 4700/J6
R50 4700/J6
R49 4700/J6
R48 1000/J6
R202 4700/J6
R203 4700/J6
R45 PAT/J6
R47 PAT/J6
R56 10K/J6
R66 10K/J6
R55 10K/J6
R67 10K/J6
C42 0.1/UFN
C40 0.1/UFN
R64 10K/J6
R70 10K/J6
R200 120/J6
C43 0.01/UFN
C41 0.1/UFN
R94
R93 10K/J6
R158 1000/J6
R159 1000/J6
R160 1000/J6
R161 1000/J6
R162 1000/J6
R163 1000/J6
R164 1000/J6
R165 1000/J6
C36 0.01/UBN
C34 0.01/UBN
C35 0.01/UBN
C33 0.01/UBN
C50 0.1/UFN
C51 0.1/UFN
C82 0.01/UBN
C81 0/J6
R111 PAT/J6
C80 0/J6
C79 0/J6
C78 0/J6
C77 0/J6
R114 PAT/J6
C76 0/J6
C75 0.01/UBN
C74 0.01/UBN
C73 0.01/UBN
R118 PAT/J6
C72 0.01/UBN
C71 0.01/UBN
R120 PAT/J6
C70 0.01/UBN
C69 0.01/UBN
C68 0.01/UBN
C67 0.01/UBN
R61 R62 R63 4700/J6
R65 R66 R67 R68 R69 4700/J6
C21 16V47/EVV
C23 0.1/UBN
C25 0.1/UBN
C27 16V47/EVV
C20 16V47/EVV
C22 0.1/UBN
C24 0.1/UBN
C26 16V47/EVV
C88 0.01/UBN
C89 0.01/UBN
C28 0.01/UBN
C29 0.01/UBN
C30 0.01/UBN
C31 0.01/UBN
C32 0.01/UBN
C37 0.01/UBN
MC74HC32AF-R
MC74HC11F-R
MC14516BF-R
MC14013BF-R
MC14015BF-R
MC74HC04AF-R
MC74HC11F-R

COMPONENT NAME	FRONT CPU (DIAL/AD)	03/04
CIRCUIT BOARD NO.		
VEP86285B		
		SCM253


TO_FRONTSW
P1
VJP1942T
GND
+5V
ADDBUS[1]
CS8279
ADRS_BUS[0]
DATA_BUS[7]
DATA_BUS[6]
ADRS_BUS[1]
LED_CLR
CS8279
ADRS_BUS[0]
R129
0/J6
R130
PAT/J6
DATA_BUS[6-7]
DATA_BUS[0-7]
P2
VJP1942T
DATA_BUS[5]
DATA_BUS[4]
DATA_BUS[3]
DATA_BUS[2]
DATA_BUS[1]
DATA_BUS[0]
!OWR
!ORD
RESET_H
KEYSCAN_CLK
LV_BLK
LV_CLK
LV_DATA
R99 0/J6
R100 0/J6
R201 120/J6
C90
PAT/UBN
DFRQ01
DFRQ02
IC16
MC74HC32AF-R
IC26
MC14013BF-R
INT2
DIAL_FRQ
TO_FRONTVR1
P3
VJP3440A016
VR_SW[2]
VR_SW[1]
VR_SW[3]
VR_SW[0]
VR_SW[4]
VR_A[5]
VR_A[4]
VR_A[0]
VR_A[3]
VR_A[1]
REGA+5V
VR_A[2]
VR_SW[0-9]
P4 TO_FRONTVR2
VJP3440A016
VR_SW[6]
VR_SW[7]
HP_R
VR_SW[8]
HP_L
VR_SW[9]
VR_SW[5]
VR_B[0]
VR_B[4]
HP_G2
VR_B[3]
REGB+5V
VR_B[1]
VR_B[2]
R124 PAT/J6
R125 PAT/J6
FRONT VR1 (VEP80A99A)
P1
VJP1230T
VR_DATA
VCC
R6 22/DS
VR6 10K
CW
JP1
LAND
P5
VJP2891A016
HP_G
HP_R
HP_L
AGND
FR_SERI1B
FR_SERI1A
FR_SERI0B
FR_SERI0A
+7.5
R126 PAT/J6
R127 PAT/J6
R128 0/J6
R105 0/J6
R106 0/J6
R107 0/J6
L1
VLP0133-T
C48 0.1/UFN
C38 16V47/EVV
+7.5V
L2
VLP0133-T
C49 0.1/UFN
C39 16V47/EVV
L3 VLP0133-T
C93 16V47/EVV
TO_DIAL
P8
VJP1233T
D_STILL
D_SHTL
D_DATA0
D_DATA1
TO_FRONT_CPUSUB
P7
VJS2698A028
SUB_KEY[12]
SUB_KEY[11]
SUB_KEY[10]
SUB_KEY[9]
SUB_KEY[8]
SUB_KEY[7]
SUB_KEY[6]
SUB_KEY[5]
SUB_KEY[4]
VR_B[7]
SUB_KEY[3]
VR_B[6]
SUB_KEY[2]
VR_B[5]
SUB_KEY[1]
VR_A[7]
SUB_KEY[0]
VR_A[6]
C83 PAT/EVV
VR_B[0-7]
VR_A[0-7]
SUB_KEY[0-12]
TO_VFD
P6
VJS3281A020
VFD_DATA[0-7]
VFD_DATA[7]
VFD_DATA[6]
VFD_DATA[5]
VFD_DATA[4]
VFD_TEST
VFD_DATA[3]
VFD_DATA[2]
VFD_DATA[1]
VFD_DATA[0]
VFD_WR
VFD_SEL
VFD_BUSY
R71 10K/J6
TC_VFD
DP1 VEQ1847

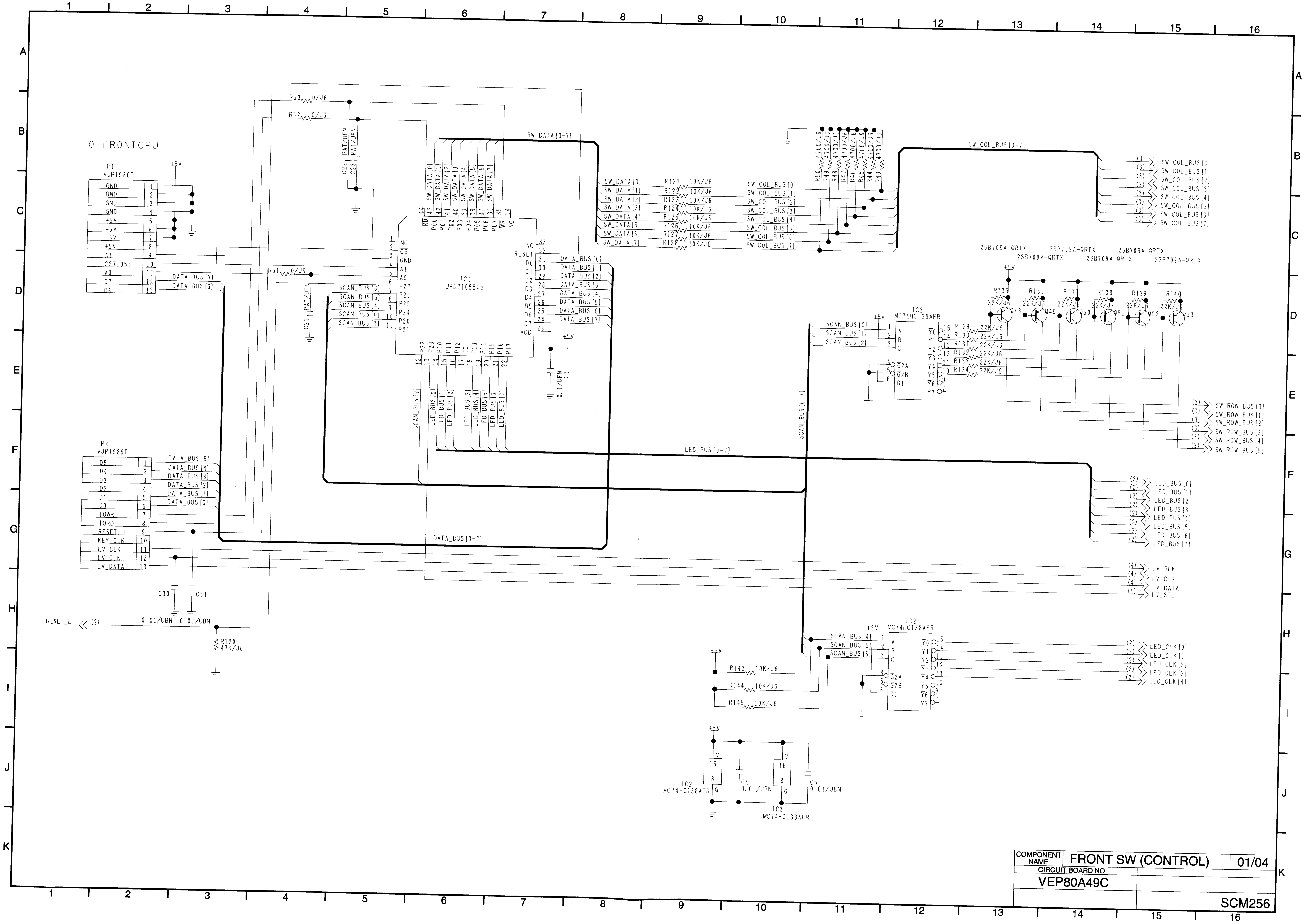
COMPONENT NAME	FRONT CPU (CONNECTOR)	04/04
CIRCUIT BOARD NO.		
VEP86285B		
		SCM254

KR6R33(4/4)


TO_FRONTCPU
P1
VJP3406A028
GND 28
GND 27
VR1 26
VCC1 25
SW1 24
VR2 23
VCC2 22
SW2 21
VR3 20
VCC3 19
SW3 18
VR4 17
VCC4 16
SW4 15
VR5 14
VCC5 13
SW5 12
SW6 11
SW7 10
SW8 9
SW9 8
SW10 7
NC 6
SW11 5
SW12 4
SW13 3
GND 2
GND 1
VR[1-5]
VCC[1-5]
VR[1]
VR[2]
VR[3]
VR[4]
VR[5]
VCC[1]
VCC[2]
VCC[3]
VCC[4]
VCC[5]
SW[1]
SW[2]
SW[3]
SW[4]
SW[5]
SW[6]
SW[7]
SW[8]
SW[9]
SW[10]
SW[11]
SW[12]
SW[13]
SW[1-13]
SW[6-13]
VR1 PAT/VRV0273
VR2 VRV0273
VR3 VRV0273
VR4 VRV0273
VR5 VRV0273
CW
R1 100/J6
R2 100/J6
R3 100/J6
R4 100/J6
R5 100/J6
VSS0391 SW1
VSS0391 SW2
VSS0391 SW3
VSS0391 SW4
VSS0391 SW5
SW6 VSS0391
SW7 PAT/VSS0391
SW8 PAT/VSS0391
SW9 PAT/VSS0391
SW10 VSS0391
SW11 VSP1013
SW12 VSP1013
SW13 VSP1013
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

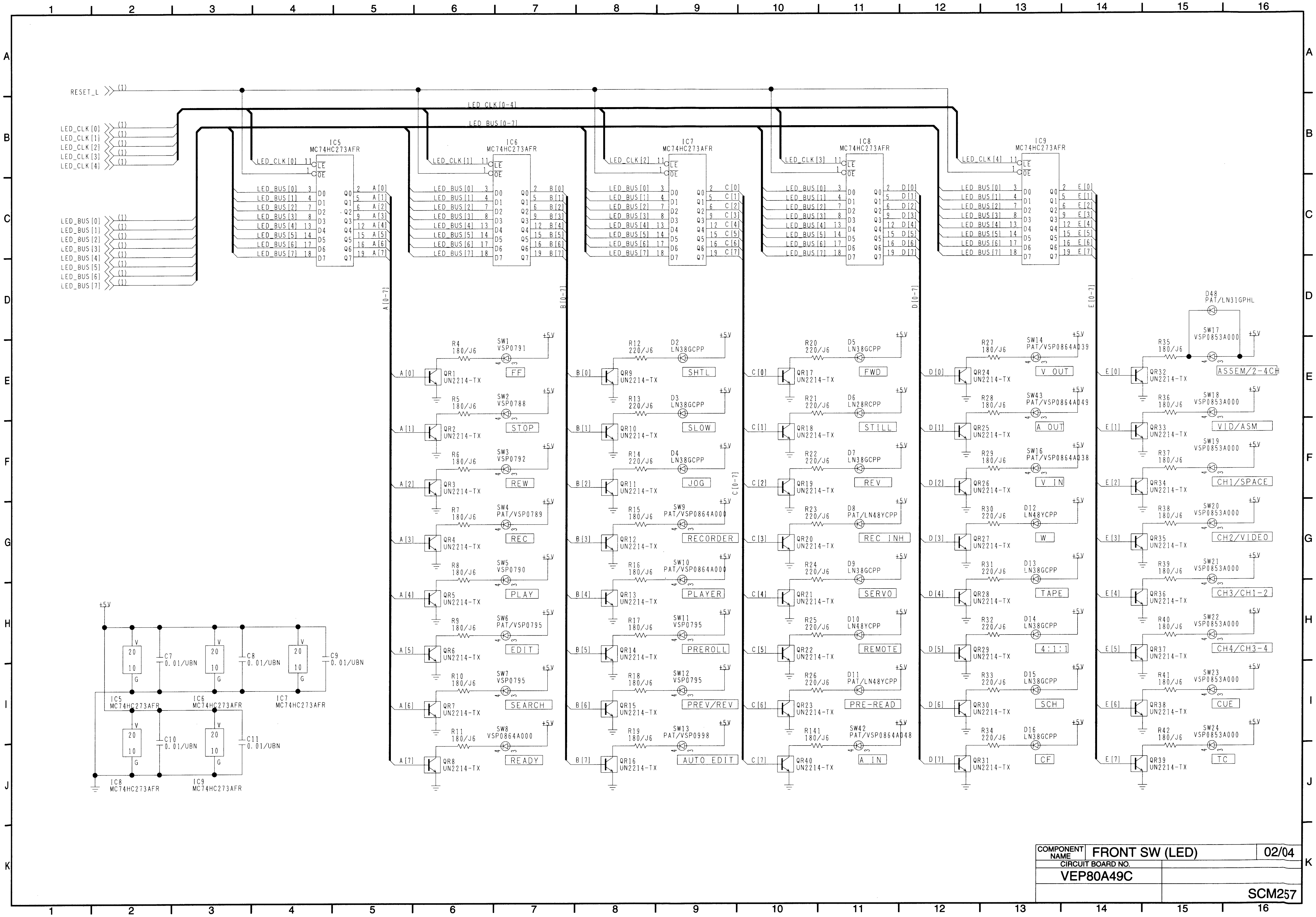
COMPONENT NAME	FRONT CPU SUB	01/01
CIRCUIT BOARD NO.		
VEP86148D		
		SCM255

KR6R57(1/1)

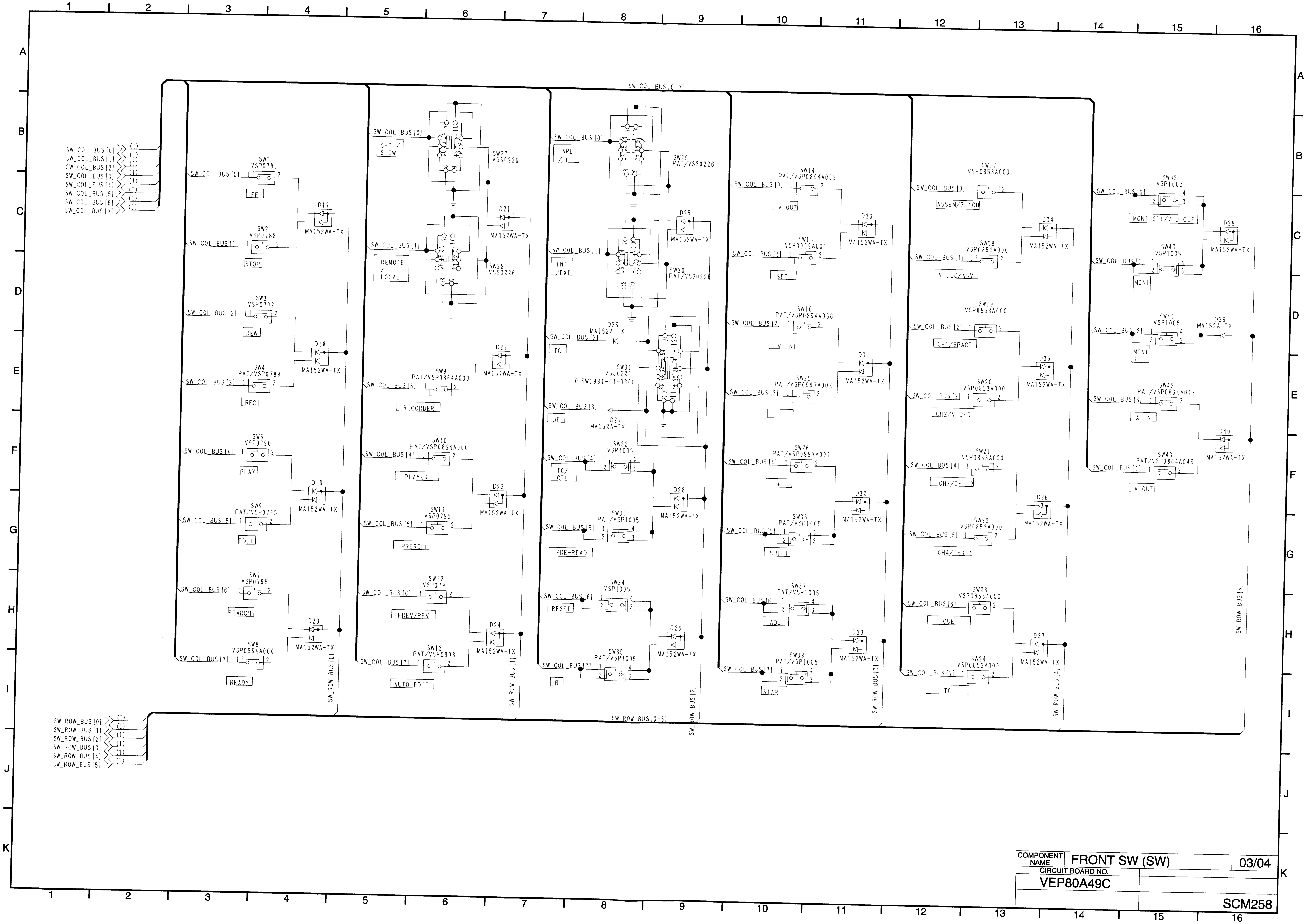

TO FRONTCPU
P1
VJP1986T
GND
+5V
A1
CS71055
A0
D7
D6
DATA_BUS[7]
DATA_BUS[6]
R53 0/J6
R52 0/J6
R51 0/J6
C22 PAT/UFN
C23 PAT/UFN
C21 PAT/UFN
SW_DATA[0-7]
IC1
UPD71055GB
NC
CS
GND
A1
A0
P27
P26
P25
P24
P20
P21
RD
P00
P01
P02
P03
P04
P05
P06
P07
WR
RESET
D0
D1
D2
D3
D4
D5
D6
D7
VDD
P22
P23
P10
P11
P12
IC
P13
P14
P15
P16
P17
SCAN_BUS[6]
SCAN_BUS[5]
SCAN_BUS[4]
SCAN_BUS[0]
SCAN_BUS[1]
SCAN_BUS[2]
DATA_BUS[0]
DATA_BUS[1]
DATA_BUS[2]
DATA_BUS[3]
DATA_BUS[4]
DATA_BUS[5]
DATA_BUS[6]
DATA_BUS[7]
C1 0.1/UFN
LED_BUS[0]
LED_BUS[1]
LED_BUS[2]
LED_BUS[3]
LED_BUS[4]
LED_BUS[5]
LED_BUS[6]
LED_BUS[7]
LED_BUS[0-7]
DATA_BUS[0-7]
SCAN_BUS[0-7]
SW_DATA[0]
SW_DATA[1]
SW_DATA[2]
SW_DATA[3]
SW_DATA[4]
SW_DATA[5]
SW_DATA[6]
SW_DATA[7]
R121 10K/J6
R122 10K/J6
R123 10K/J6
R124 10K/J6
R125 10K/J6
R126 10K/J6
R127 10K/J6
R128 10K/J6
SW_COL_BUS[0]
SW_COL_BUS[1]
SW_COL_BUS[2]
SW_COL_BUS[3]
SW_COL_BUS[4]
SW_COL_BUS[5]
SW_COL_BUS[6]
SW_COL_BUS[7]
R50 4700/J6
R49 4700/J6
R48 4700/J6
R47 4700/J6
R46 4700/J6
R45 4700/J6
R44 4700/J6
R43 4700/J6
SW_COL_BUS[0-7]
2SB709A-QRTX
R135 22K/J6
R136 22K/J6
R137 22K/J6
R138 22K/J6
R139 22K/J6
R140
Q48
Q49
Q50
Q51
Q52
Q53
IC3
MC74HC138AFR
R129 22K/J6
R130 22K/J6
R131 22K/J6
R132 22K/J6
R133 22K/J6
R134 22K/J6
SW_ROW_BUS[0]
SW_ROW_BUS[1]
SW_ROW_BUS[2]
SW_ROW_BUS[3]
SW_ROW_BUS[4]
SW_ROW_BUS[5]
P2
VJP1986T
D5
D4
D3
D2
D1
D0
IOWR
IORD
RESET_H
KEY_CLK
LV_BLK
LV_CLK
LV_DATA
C30
C31
0.01/UBN
RESET_L
R120 47K/J6
LV_BLK
LV_CLK
LV_DATA
LV_STB
IC2
MC74HC138AFR
SCAN_BUS[4]
SCAN_BUS[5]
SCAN_BUS[6]
R143 10K/J6
R144 10K/J6
R145 10K/J6
LED_CLK[0]
LED_CLK[1]
LED_CLK[2]
LED_CLK[3]
LED_CLK[4]
C4 0.01/UBN
C5 0.01/UBN
+5V

COMPONENT NAME	FRONT SW (CONTROL)	01/04
CIRCUIT BOARD NO.		
VEP80A49C		
		SCM256

KR0M52(1/4)

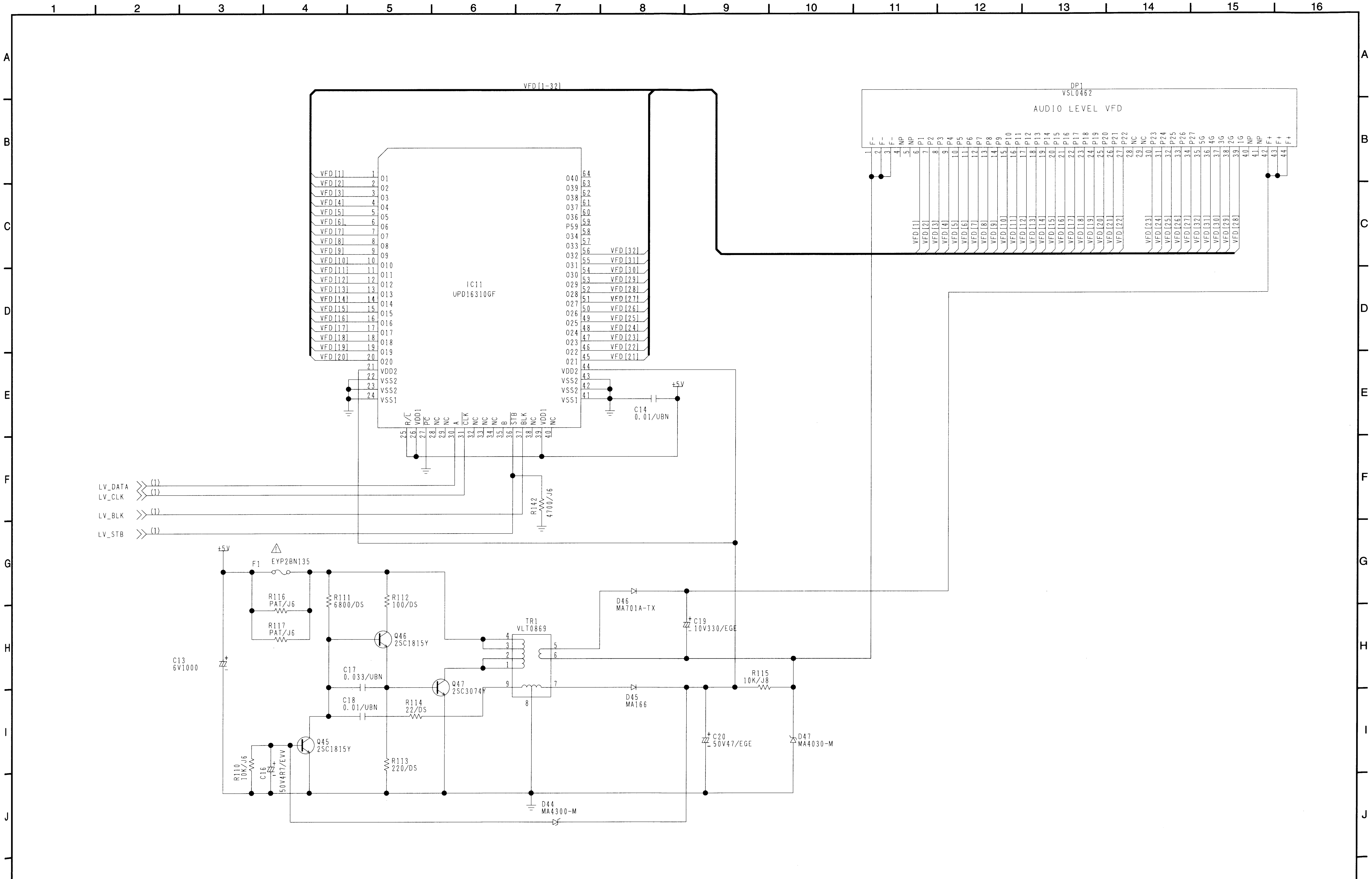

RESET_L
LED_CLK[0] … LED_CLK[4]
LED_BUS[0] … LED_BUS[7]
LED_CLK[0-4]
LED_BUS[0-7]
IC5 MC74HC273AFR
IC6 MC74HC273AFR
IC7 MC74HC273AFR
IC8 MC74HC273AFR
IC9 MC74HC273AFR
LE
OE
D0 D1 D2 D3 D4 D5 D6 D7
Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7
A[0-7]
B[0-7]
C[0-7]
D[0-7]
E[0-7]
+5V
QR1 … QR40 UN2214-TX
R4 180/J6
SW1 VSP0791 FF
SW2 VSP0788 STOP
SW3 VSP0792 REW
SW4 PAT/VSP0789 REC
SW5 VSP0790 PLAY
SW6 PAT/VSP0795 EDIT
SW7 VSP0795 SEARCH
SW8 VSP0864A000 READY
D2 LN38GCPP SHTL
D3 LN38GCPP SLOW
D4 LN38GCPP JOG
SW9 PAT/VSP0864A000 RECORDER
SW10 PAT/VSP0864A000 PLAYER
SW11 VSP0795 PREROLL
SW12 VSP0795 PREV/REV
SW13 PAT/VSP0998 AUTO EDIT
D5 LN38GCPP FWD
D6 LN28RCPP STILL
D7 LN38GCPP REV
D8 PAT/LN48YCPP REC INH
D9 LN38GCPP SERVO
D10 LN48YCPP REMOTE
D11 PAT/LN48YCPP PRE-READ
SW42 PAT/VSP0864A048 A IN
SW14 PAT/VSP0864A039 V OUT
SW43 PAT/VSP0864A049 A OUT
SW16 PAT/VSP0864A038 V IN
D12 LN48YCPP W
D13 LN38GCPP TAPE
D14 LN38GCPP 4:1:1
D15 LN38GCPP SCH
D16 LN38GCPP CF
D48 PAT/LN31GPHL
SW17 VSP0853A000 ASSEM/2-4CH
SW18 VSP0853A000 VID/ASM
SW19 VSP0853A000 CH1/SPACE
SW20 VSP0853A000 CH2/VIDEO
SW21 VSP0853A000 CH3/CH1-2
SW22 VSP0853A000 CH4/CH3-4
SW23 VSP0853A000 CUE
SW24 VSP0853A000 TC
C7 0.01/UBN
C8 0.01/UBN
C9 0.01/UBN
C10 0.01/UBN
C11 0.01/UBN

COMPONENT NAME	FRONT SW (LED)	02/04
CIRCUIT BOARD NO.		
VEP80A49C		
		SCM257


SW_COL_BUS[0-7]
SW_COL_BUS[0]
SW_COL_BUS[1]
SW_COL_BUS[2]
SW_COL_BUS[3]
SW_COL_BUS[4]
SW_COL_BUS[5]
SW_COL_BUS[6]
SW_COL_BUS[7]
(1)
SW1 VSP0791
FF
SW2 VSP0788
STOP
D17 MA152WA-TX
SW3 VSP0792
REW
SW4 PAT/VSP0789
REC
D18 MA152WA-TX
SW5 VSP0790
PLAY
SW6 PAT/VSP0795
EDIT
D19 MA152WA-TX
SW7 VSP0795
SEARCH
SW8 VSP0864A000
READY
D20 MA152WA-TX
SW_ROW_BUS[0]
SHTL/SLOW
SW27 VSS0226
REMOTE / LOCAL
SW28 VSS0226
D21 MA152WA-TX
SW9 PAT/VSP0864A000
RECORDER
D22 MA152WA-TX
SW10 PAT/VSP0864A000
PLAYER
SW11 VSP0795
PREROLL
D23 MA152WA-TX
SW12 VSP0795
PREV/REV
SW13 PAT/VSP0998
AUTO EDIT
D24 MA152WA-TX
SW_ROW_BUS[1]
TAPE /FF
SW29 PAT/VSS0226
INT /EXT
SW30 PAT/VSS0226
D25 MA152WA-TX
D26 MA152A-TX
TC
SW31 VSS0226 (HSW1931-01-930)
UB
D27 MA152A-TX
SW32 VSP1005
TC/ CTL
SW33 PAT/VSP1005
PRE-READ
D28 MA152WA-TX
SW34 VSP1005
RESET
SW35 PAT/VSP1005
B
D29 MA152WA-TX
SW_ROW_BUS[2]
SW_ROW_BUS[0-5]
SW14 PAT/VSP0864A039
V OUT
SW15 VSP0999A001
SET
D30 MA152WA-TX
SW16 PAT/VSP0864A038
V IN
SW25 PAT/VSP0997A002
−
D31 MA152WA-TX
SW26 PAT/VSP0997A001
+
SW36 PAT/VSP1005
SHIFT
D32 MA152WA-TX
SW37 PAT/VSP1005
ADJ
SW38 PAT/VSP1005
START
D33 MA152WA-TX
SW_ROW_BUS[3]
SW17 VSP0853A000
ASSEM/2-4CH
SW18 VSP0853A000
VIDEO/ASM
D34 MA152WA-TX
SW19 VSP0853A000
CH1/SPACE
SW20 VSP0853A000
CH2/VIDEO
D35 MA152WA-TX
SW21 VSP0853A000
CH3/CH1-2
SW22 VSP0853A000
CH4/CH3-4
D36 MA152WA-TX
SW23 VSP0853A000
CUE
SW24 VSP0853A000
TC
D37 MA152WA-TX
SW_ROW_BUS[4]
SW39 VSP1005
MONI SET/VID CUE
SW40 VSP1005
MONI L
D38 MA152WA-TX
SW41 VSP1005
MONI R
D39 MA152A-TX
SW42 PAT/VSP0864A048
A IN
SW43 PAT/VSP0864A049
A OUT
D40 MA152WA-TX
SW_ROW_BUS[5]

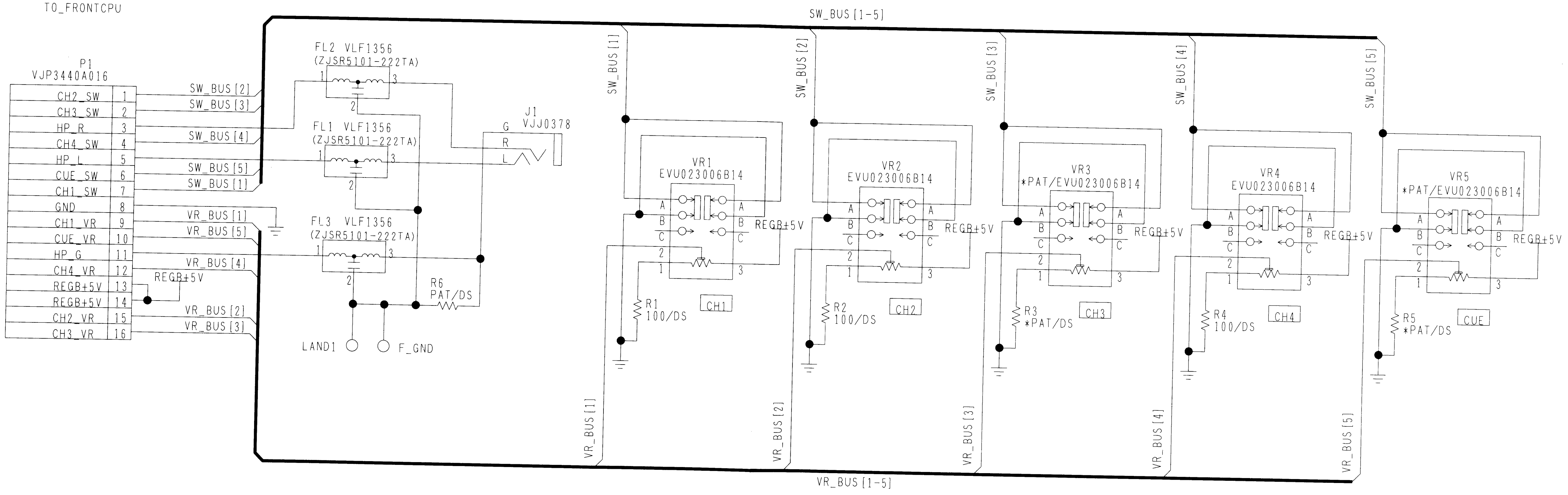
COMPONENT NAME	FRONT SW (SW)	03/04
CIRCUIT BOARD NO.		
VEP80A49C		
		SCM258

KR0M52(3/4)


VFD[1-32]
IC1
UPD16310GF
DP1
VSL0462
AUDIO LEVEL VFD
O1 … O40
VDD2
VSS2
VSS1
R/L
VDD1
PC
NC
A
CLK
B
STB
BLK
P59
F-
F+
NP
VFD[1] … VFD[32]
C14
0.01/UBN
+5V
LV_DATA
LV_CLK
LV_BLK
LV_STB
(1)
R142
4700/J6
F1
EYP2BN135
R116
PAT/J6
R117
PAT/J6
R111
6800/DS
R112
100/DS
Q46
2SC1815Y
C13
6V1000
C17
0.033/UBN
Q47
2SC3074Y
C18
0.01/UBN
R114
22/DS
Q45
2SC1815Y
R110
10K/J6
C16
50V4R7/EVV
R113
220/DS
TR1
VLT0869
D46
MA701A-TX
C19
10V330/EGE
D45
MA166
R115
10K/J8
C20
50V47/EGE
D47
MA4030-M
D44
MA4300-M
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

COMPONENT NAME FRONT SW (VFD) 04/04
CIRCUIT BOARD NO.
VEP80A49C
SCM259

KR0M52(4/4)


TO_FRONTCPU
P1
VJP3440A016
CH2_SW 1
CH3_SW 2
HP_R 3
CH4_SW 4
HP_L 5
CUE_SW 6
CH1_SW 7
GND 8
CH1_VR 9
CUE_VR 10
HP_G 11
CH4_VR 12
REGB+5V 13
REGB+5V 14
CH2_VR 15
CH3_VR 16
REGB+5V
SW_BUS[2]
SW_BUS[3]
SW_BUS[4]
SW_BUS[5]
SW_BUS[1]
VR_BUS[1]
VR_BUS[5]
VR_BUS[4]
VR_BUS[2]
VR_BUS[3]
FL2 VLF1356
(ZJSR5101-222TA)
FL1 VLF1356
(ZJSR5101-222TA)
FL3 VLF1356
(ZJSR5101-222TA)
J1
VJJ0378
G
R
L
R6
PAT/DS
LAND1
F_GND
SW_BUS[1-5]
VR_BUS[1-5]
VR1
EVU023006B14
VR2
EVU023006B14
VR3
*PAT/EVU023006B14
VR4
EVU023006B14
VR5
*PAT/EVU023006B14
REGB+5V
R1
100/DS
R2
100/DS
R3
*PAT/DS
R4
100/DS
R5
*PAT/DS
CH1
CH2
CH3
CH4
CUE

COMPONENT NAME	FRONT VR2	01/01
CIRCUIT BOARD NO.		
VEP80B00A		
		SCM260

KR0M10(1/1)

SECTION 5

CIRCUIT BOARD DIAGRAMS

CONTENTS

MOTHER P.C. BOARD (VEP80A96A) ······ PCB-1
F1: SERVO P.C. BOARD (VEP82221A) ······ PCB-2
F2: SYSCON P.C. BOARD (VEP86284B) ······ PCB-4
F3: NON TRK P.C. BOARD (VEP83444A) ······ PCB-6
DV UCOM P.C. BOARD (VEP88234M) ······ PCB-7
F4: SDI MAIN P.C. BOARD (VEP83452A) ······ PCB-8
F5: PB P.C. BOARD (VEP83453A) ······ PCB-10
DV UCOM P.C. BOARD (VEP88234L) ······ PCB-11
F6: V OUT P.C. BOARD (VEP83454B) ······ PCB-12
4:2:2 DA SUB P.C. BOARD (VEP83385B) ······ PCB-14
F7: A PROC P.C. BOARD (VEP84326C) ······ PCB-16
F8: A ADDA P.C. BOARD (VEP84301C) ······ PCB-18
H1: CUE P.C. BOARD (VEP84302B) ······ PCB-20
H2/H3/H4: EQ P.C. BOARD (VEP85177A) ······ PCB-21
V BLK P.C. BOARD (VEP88235A) ······ PCB-22
HEAD AMP P.C. BOARD (VEP85174A) ······ PCB-23
POWER 1 P.C. BOARD (VEP81183A) ······ PCB-24
POWER 2 P.C. BOARD (VEP81184A) ······ PCB-24
FRONT CPU P.C. BOARD (VEP86285B) ······ PCB-25
FRONT SW P.C. BOARD (VEP80A49C) ······ PCB-26
UP FRONT 1 P.C. BOARD (VEP80A52B) ······ PCB-27
FRONT VR1 P.C. BOARD (VEP80A99A) ······ PCB-27
FRONT VR2 P.C. BOARD (VEP80B00A) ······ PCB-27
AES/EBU P.C. BOARD (VEP84304B) ······ PCB-27
FRONT CPU SUB P.C. BOARD (VEP86148D) ······ PCB-27
V/S JACK P.C. BOARD (VEP83417B) ······ PCB-28
AUDIO JACK P.C. BOARD (VEP84303C) ······ PCB-28
MECHA I/F P.C. BOARD (VEP82216B) ······ PCB-28
CARRIGE P.C. BOARD (VEP80856A) ······ PCB-28

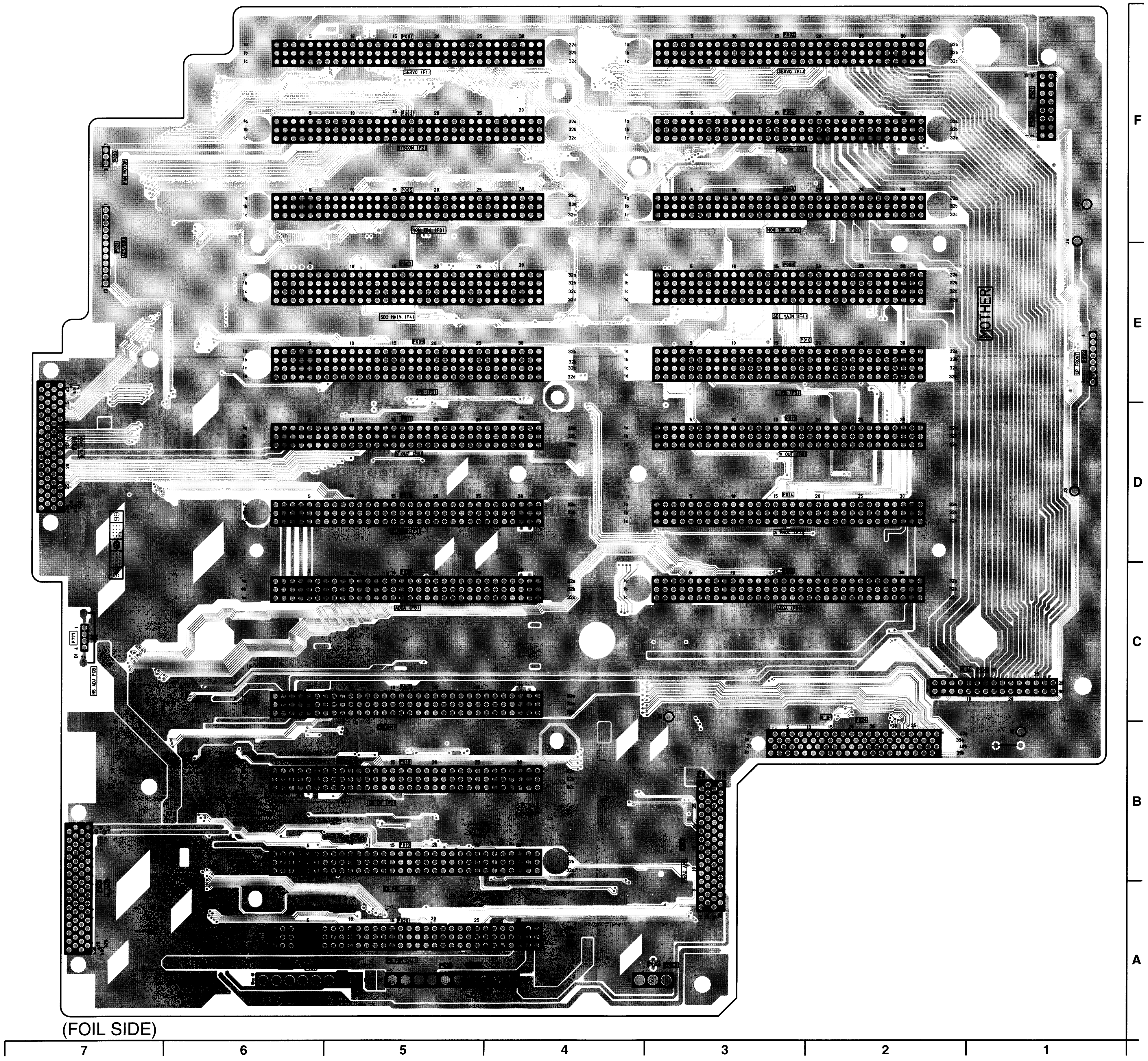
NOTE:
DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER SHOWN IN THE PARTS LIST.
AND MAY BE SLIGHTLY DIFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

MOTHER P.C. BOARD (VEP80A96A)



MOTHER
(FOIL SIDE)
7
6
5
4
3
2
1
A
B
C
D
E
F

F1: SERVO P.C. BOARD (VEP82221A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2	E4	IC81	D3	IC241	H3	IC402	D4	IC701	F4	QR84	D3
IC3	E4	IC82	C2	IC263	I3	IC403	D4	IC702	F4	QR85	E3
IC30	E3	IC83	D2	IC264	I4	IC404	C4	IC703	F4	QR120	C3
IC31	E3	IC120	C3	IC268	E1	IC452	B3	IC712	D2	QR121	C3
IC32	E3	IC121	C3	IC269	E2	IC510	I4	IC903	D2	QR122	C3
IC33	E2	IC160	C2	IC301	H2	IC511	H4	IC921	D4	QR123	C3
IC60	C2	IC161	C3	IC302	H2	IC512	I4	QR5	D4	QR124	C3
IC61	D1	IC162	D3	IC304	H2	IC513	I4	QR6	D4	QR160	C3
IC67	C1	IC203	F3	IC305	F2	IC514	H4	QR7	D4	QR161	D3
IC69	C2	IC207	F3	IC324	I3	IC515	I4	QR8	D4	QR162	D3
IC70	D1	IC231	I3	IC325	I3	IC516	I4	QR30	E4	QR163	D3
IC71	E1	IC236	I2	IC340	B2	IC517	I3	QR81	D3	QR164	D3
IC74	E2	IC237	I2	IC341	B2	IC600	A3	QR82	D3	QR660	F3
IC80	E3	IC240	I2	IC342	B3	IC660	F4	QR83	D3	QR701	F3

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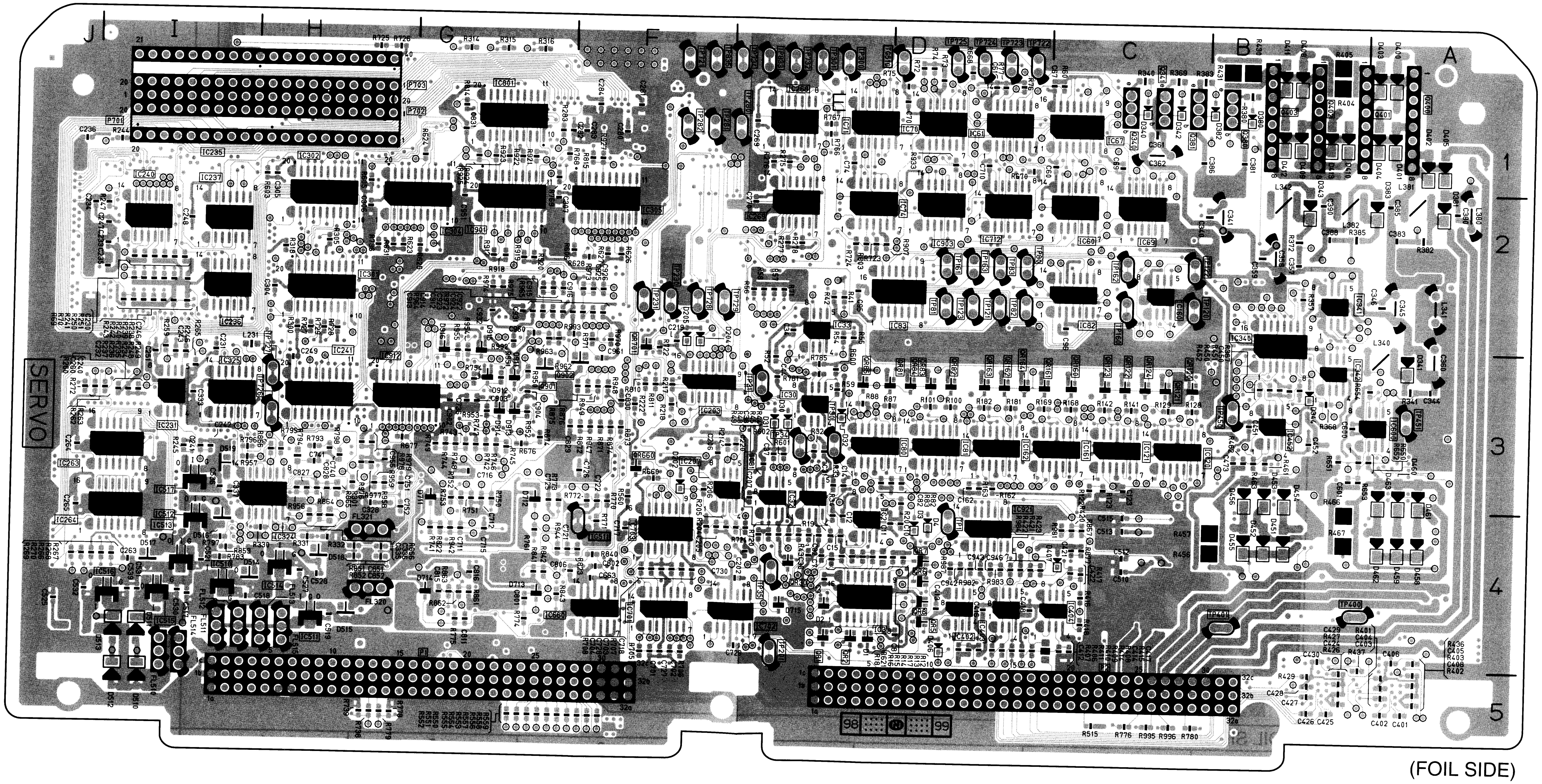

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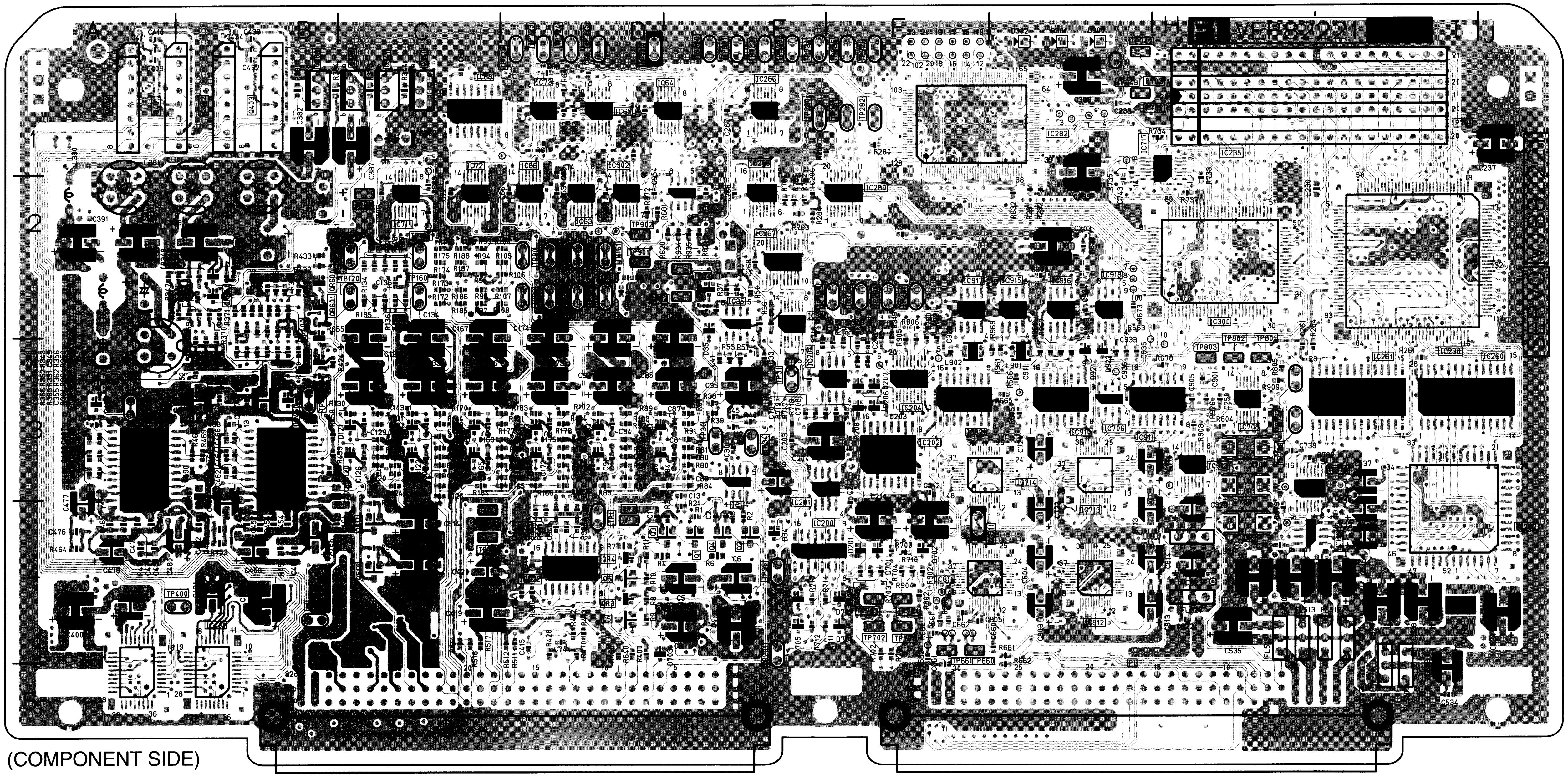
F1: SERVO P.C. BOARD (VEP82221A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC34	E3	IC235	H1	IC704	F3	P1	G5	QR400	B3	TP80	D2	TP231	F2	TP703	F4	TP741	C4
IC35	E3	IC260	I3	IC708	H3	P2	D5	QR401	B3	TP81	D2	TP280	E1	TP704	F4	TP742	G1
IC63	D2	IC261	I3	IC711	C2	Q340	C1	QR600	B2	TP82	D2	TP281	F1	TP721	F1	TP743	G1
IC64	E1	IC262	I4	IC713	G3	Q341	C1	QR601	B2	TP83	D2	TP282	F1	TP722	D1	TP801	H3
IC65	D1	IC265	E2	IC714	F3	Q380	B1	TG510	D1	TP120	C2	TP300	E1	TP723	D1	TP802	H3
IC66	D2	IC266	E1	IC715	H3	Q381	C1	TG511	F4	TP121	D2	TP301	E1	TP724	D1	TP803	H3
IC68	C1	IC267	E2	IC716	H4	Q400	A1	TP2	D4	TP122	C2	TP400	A4	TP725	D1	TP901	D2
IC72	C2	IC280	F2	IC717	H1	Q401	A1	TP30	E3	TP123	D2	TP401	B4	TP726	H3	TP902	D2
IC73	D1	IC282	F1	IC821	F3	Q402	B1	TP31	E3	TP160	C2	TP450	B3	TP727	H3	X320	H4
IC200	E4	IC300	H2	IC902	D2	Q403	B1	TP32	E2	TP161	D2	TP451	A3	TP728	F2	X701	H3
IC201	F3	IC400	A5	IC904	E2	Q510	C4	TP33	E2	TP162	C2	TP660	F4	TP729	F2	X801	H3
IC202	F3	IC401	B5	IC910	G3	Q511	C4	TP34	E3	TP163	D2	TP661	F4	TP731	C4		
IC204	F3	IC450	B3	IC922	D4	QR340	B2	TP35	E4	TP201	E5	TP701	F4	TP732	E1		
IC230	I2	IC451	A3	IS235	H1	QR341	B2	TP60	C2	TP230	F2	TP702	F4	TP734	E1		

(COMPONENT SIDE)



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F2: SYSCON P.C. BOARD (VEP86284B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3	B3	IC33	C2	IC522	G1	IC709	J2	Q5	E3	QR9	B3	QR29	C3
IC4	B2	IC34	A3	IC528	E3	IC711	I3	Q22	D4	QR10	B3	QR30	B3
IC5	A2	IC36	D4	IC529	E3	IC712	I3	Q25	C4	QR11	E3	QR33	C3
IC7	E4	IC37	B2	IC530	E2	IC715	G4	Q26	D4	QR12	B1	QR34	A3
IC10	C3	IC38	D3	IC531	E2	IC718	I3	Q29	C4	QR17	C3	QR35	D4
IC11	D3	IC39	B3	IC532	F3	IC723	I5	Q38	C3	QR18	B3	QR36	D4
IC12	D1	IC501	F3	IC534	D3	IC724	I5	Q704	I3	QR19	C3	QR37	A3
IC14	D2	IC502	F3	IC535	D2	IC727	I2	Q705	I4	QR20	B3	QR38	A3
IC16	D2	IC506	E1	IC536	G3	IC728	G2	QR3	B5	QR21	B3	QR41	A3
IC19	E4	IC507	E1	IC541	H2	IC729	H2	QR4	A2	QR22	C3	QR43	C3
IC20	E4	IC508	D1	IC705	H1	IC730	H1	QR5	A5	QR23	C3	QR44	C3
IC30	E3	IC519	I1	IC706	H2	IC731	H2	QR6	A5	QR24	C3	QR45	B3
IC31	D3	IC520	H1	IC707	H3	IC732	F2	QR7	A5	QR25	A3		
IC32	C3	IC521	G1	IC708	I2	IC733	I2	QR8	A1	QR26	A3		

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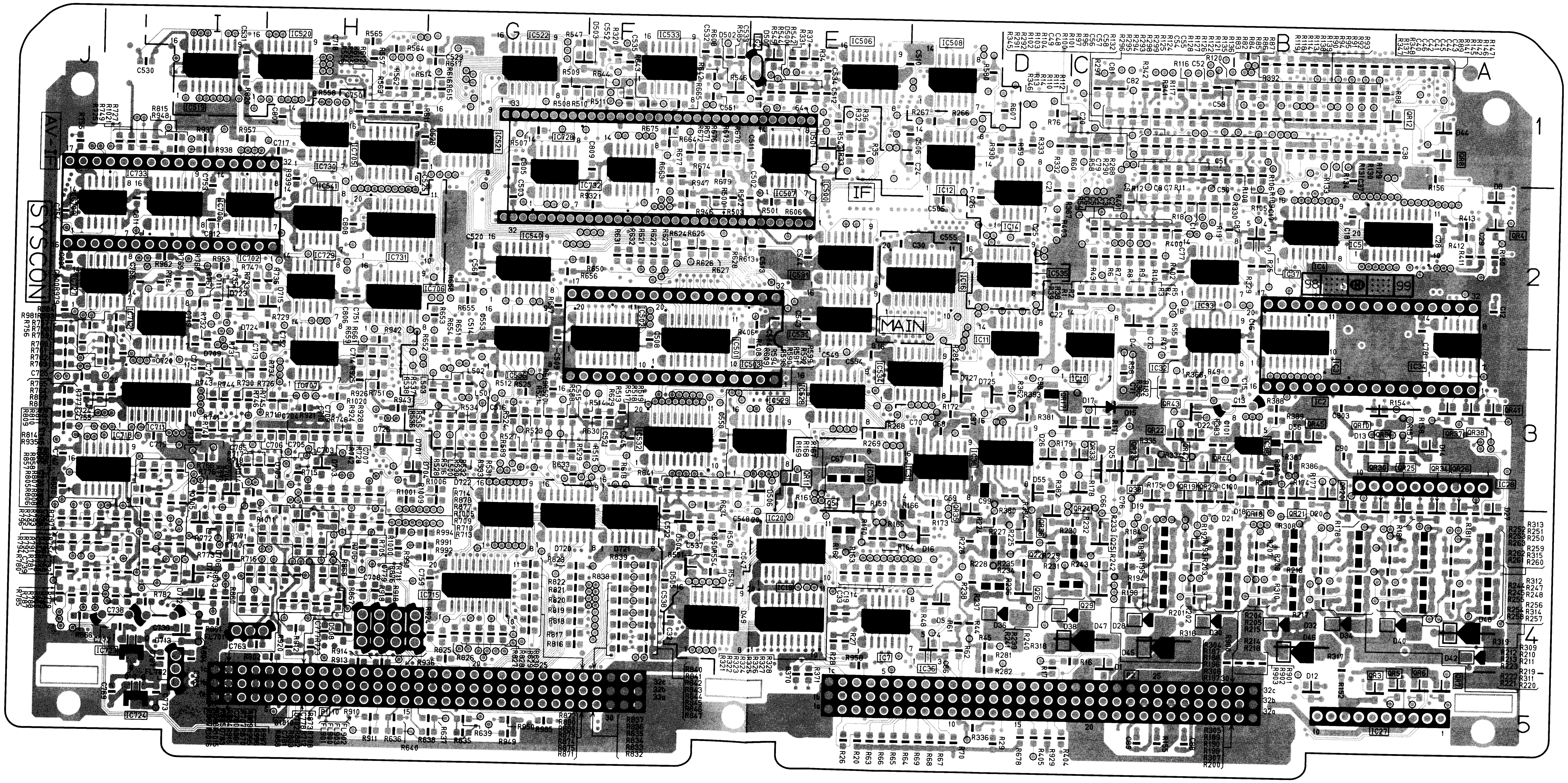

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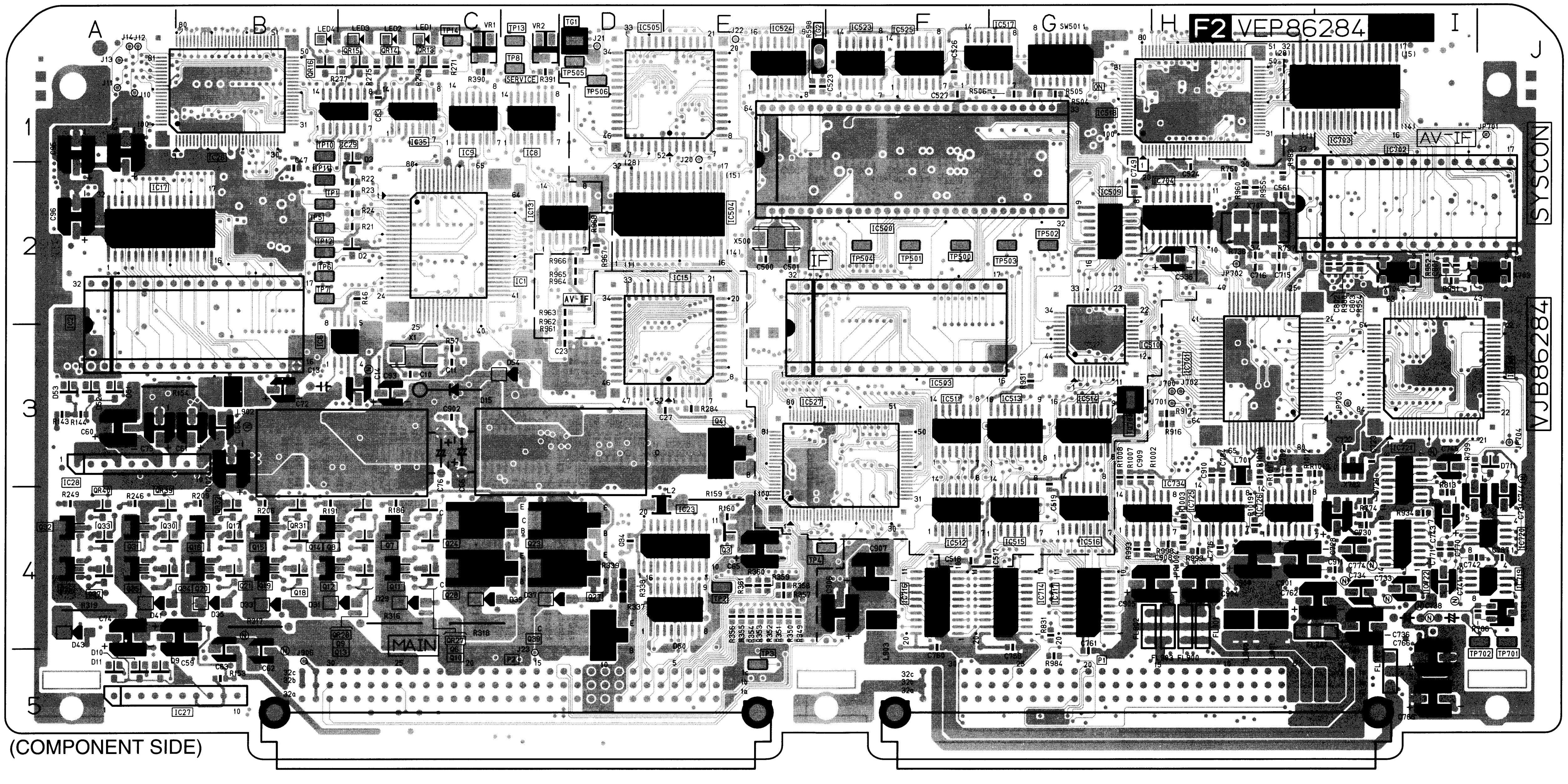
F2: SYSCON P.C. BOARD (VEP86284B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	C2	IC500	E2	IC523	F1	IC721	I3	Q8	B4	Q23	D4	QR14	C1	TP14	C1
IC2	A3	IC503	E3	IC524	E1	IC722	I4	Q9	C4	Q24	C4	QR15	C1	X1	C3
IC6	C3	IC504	E2	IC525	F1	IC725	H4	Q10	C4	Q27	D4	QR16	B1	X500	E2
IC8	D1	IC505	E1	IC527	F3	IC726	H4	Q11	C4	Q28	C4	QR27	C4	X701	H2
IC9	C1	IC509	G2	IC701	H3	IC734	G4	Q12	B4	Q30	B4	QR28	C4	X702	I3
IC13	D2	IC510	G3	IC702	H2	IS2	A3	Q13	C4	Q31	A4	QR31	B4		
IC15	E3	IC511	F3	IC703	I1	IS503	E3	Q14	B4	Q32	A4	QR32	B4		
IC17	A2	IC512	F4	IC704	H2	IS702	H2	Q15	B4	Q33	A4	QR39	A4		
IC23	E4	IC513	G3	IC710	I3	P1	G5	Q16	B4	Q34	B4	QR40	A4		
IC26	B1	IC514	G3	IC714	G4	P2	D5	Q17	B4	Q35	A4	SW501	G1		
IC27	A5	IC515	G4	IC716	F4	Q3	E4	Q18	B4	Q36	A4	TG1	D1		
IC28	A3	IC516	G4	IC717	G4	Q4	E3	Q19	B4	Q37	A4	TG701	G3		
IC29	C1	IC517	F1	IC719	J4	Q6	C4	Q20	B4	Q39	D4	TP8	D1		
IC35	C1	IC518	H1	IC720	J4	Q7	C4	Q21	B4	QR13	C1	TP13	D1		

(COMPONENT SIDE)



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F3: NON TRK P.C. BOARD (VEP83444A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3041	H4	IC3502	G1	IC3741	I2	IC3792	G3	IC3972	I2
IC3042	H4	IC3527	C1	IC3776	F1	IC3793	G3	IC3973	J2
IC3043	I4	IC3571	C3	IC3777	F1	IC3801	D4	QR3841	D1
IC3044	H3	IC3573	D3	IC3779	B2	IC3803	F4	QR3842	D1
IC3045	H3	IC3574	B1	IC3780	B2	IC3824	A4		
IC3046	I3	IC3575	C2	IC3781	C2	IC3843	G4		
IC3047	H4	IC3621	D3	IC3782	A2	IC3844	F4		
IC3048	H4	IC3623	G4	IC3783	A2	IC3845	F4		
IC3049	I4	IC3624	A4	IC3785	F3	IC3847	E4		
IC3402	B2	IC3625	E3	IC3786	F3	IC3850	E4		
IC3422	F1	IC3641	I4	IC3787	E2	IC3851	E4		
IC3442	H2	IC3651	I3	IC3788	E2	IC3883	D4		
IC3462	A1	IC3681	I4	IC3790	H3	IC3884	C4		
IC3482	D1	IC3702	G1	IC3791	I3	IC3885	J4		

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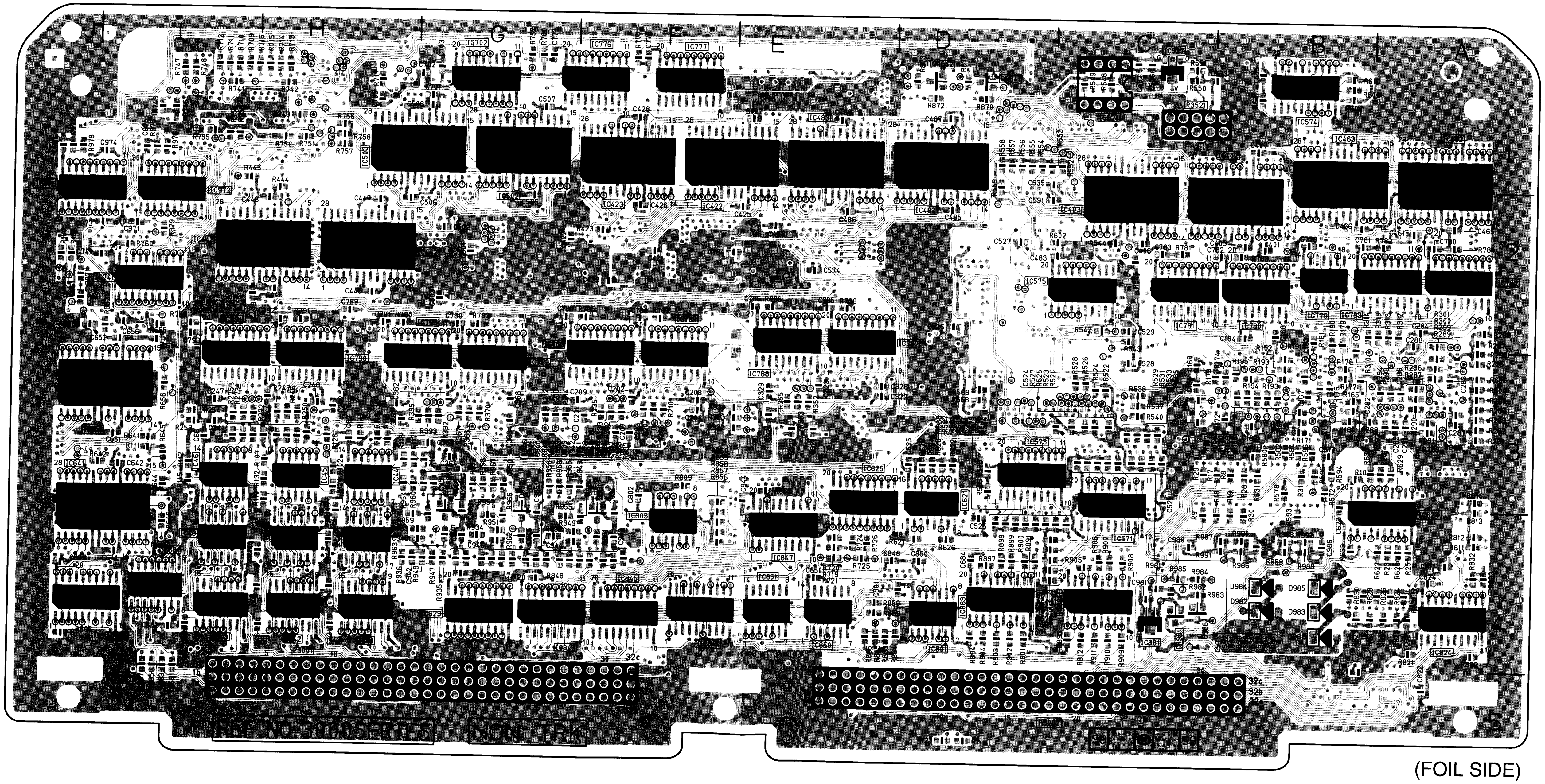

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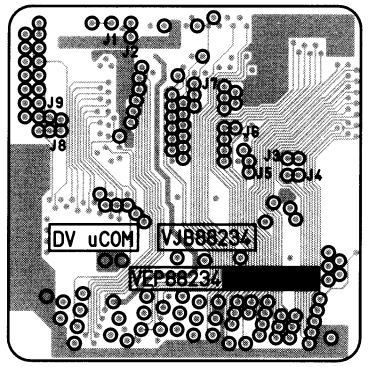
F3: NON TRK P.C. BOARD (VEP83444A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3161	B3	IC3523	D2	IC3778	F1	IC3881	D4	P3001	G5	TP3523	B2
IC3201	F3	IC3524	C1	IC3784	F2	IC3882	C4	P3002	D5	TP3524	C2
IC3241	H3	IC3525	D1	IC3789	H2	IC3931	F4	P3571	B1	TP3539	C3
IC3281	A3	IC3526	C1	IC3802	E4	IC3932	G4	P3741	I1	TP3543	C3
IC3321	E3	IC3572	B3	IC3804	F4	IC3933	G4	TG3401	B2	TP3544	C3
IC3361	G3	IC3622	B3	IC3811	A4	IC3934	G4	TG3521	D1	TP3548	C2
IC3401	B2	IC3642	I3	IC3821	A5	IC3935	G4	TG3741	G1	TP3557	A3
IC3421	F2	IC3652	I3	IC3822	B5	IC3936	G4	TP3401	C2	TP3558	C2
IC3441	H2	IC3701	G1	IC3823	A4	IC3937	G4	TP3421	G2	TP3559	C2
IC3461	A2	IC3771	F1	IC3825	B4	IC3938	G4	TP3441	I2	TP3714	D4
IC3481	E2	IC3772	E1	IC3841	G4	IC3939	G4	TP3461	B2	TP3715	G1
IC3501	G2	IC3773	F1	IC3842	F4	IC3971	I2	TP3481	F2	TP3742	B3
IC3521	C3	IC3774	F1	IC3846	E4	IC3983	B4	TP3501	H2	X3881	C4
IC3522	D3	IC3775	E1	IC3848	D4	IS3524	C1	TP3522	D1	X3882	J4

(COMPONENT SIDE)

DV UCOM P.C. BOARD (VEP88234M)



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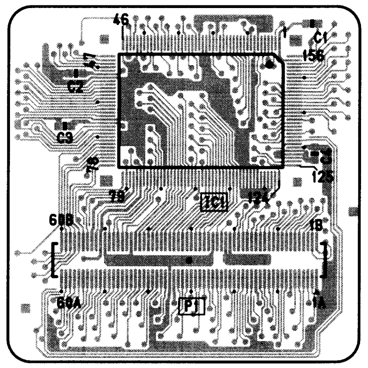

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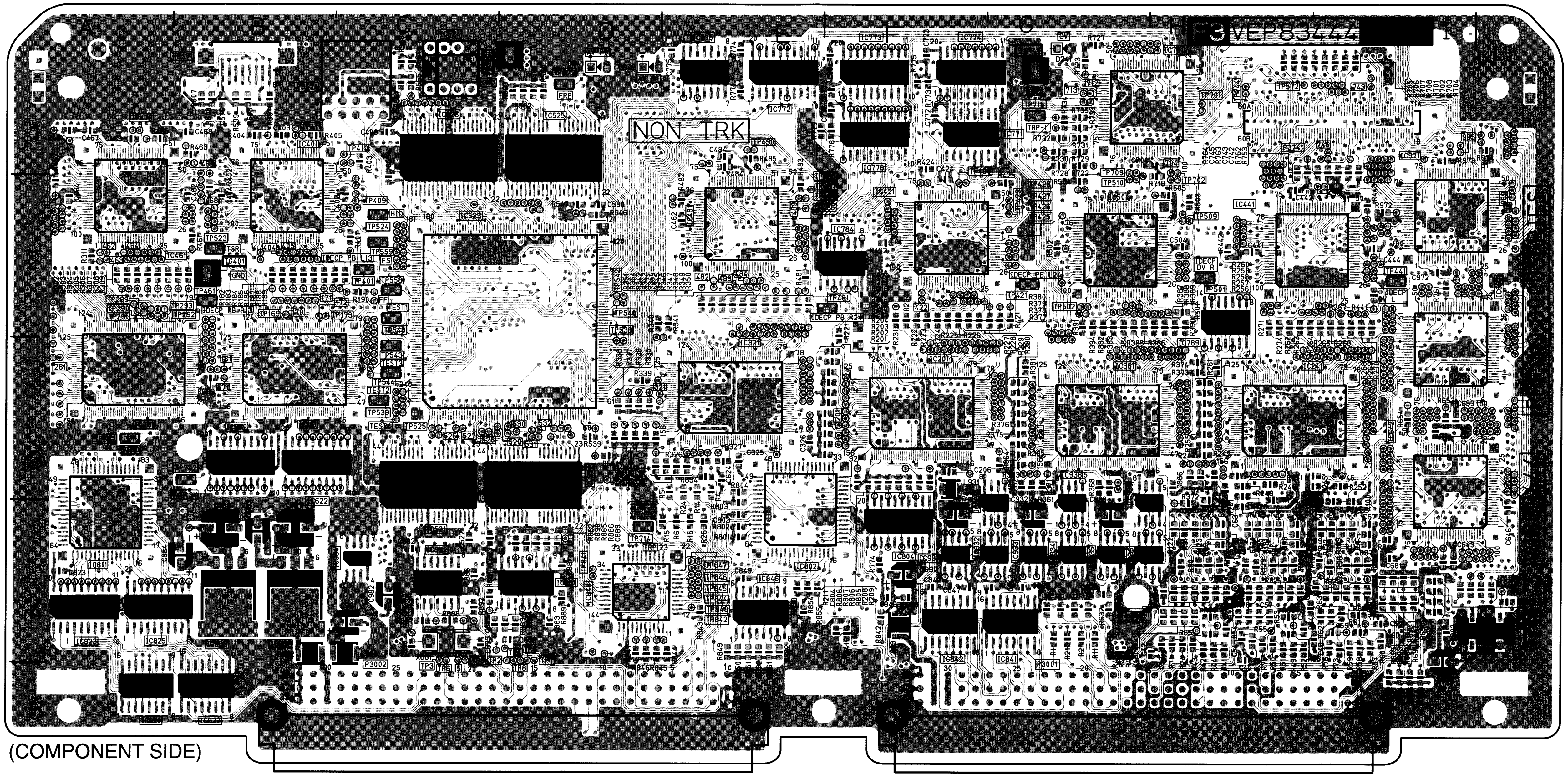

(COMPONENT SIDE)

F4: SDI MAIN P.C. BOARD (VEP83452A)

REF	LOC	REF	LOC	REF	LOC
IC294	E4	IC641	C1	P6	G4
IC297	C4	IC643	E2	P591	D1
IC299	C3	IC751	B4	P592	C1
IC300	C2	IC752	A5	P593	C1
IC301	C2	IC753	A4	P641	C1
IC302	D2	IC755	B5	TG1	F1
IC443	E4	IC758	C4	TG3	I4
IC501	B3	IC759	B4	TG4	A4
IC502	B4	IC801	B2	TP331	F3
IC531	A1	P1	H4	TP371	D3
IC561	A1	P2	D4	TP372	D3
IC591	D1	P3	F4	TP411	F3
IC592	D1	P4	E1	TP412	E4
IC596	E2	P5	A3	TP413	F4

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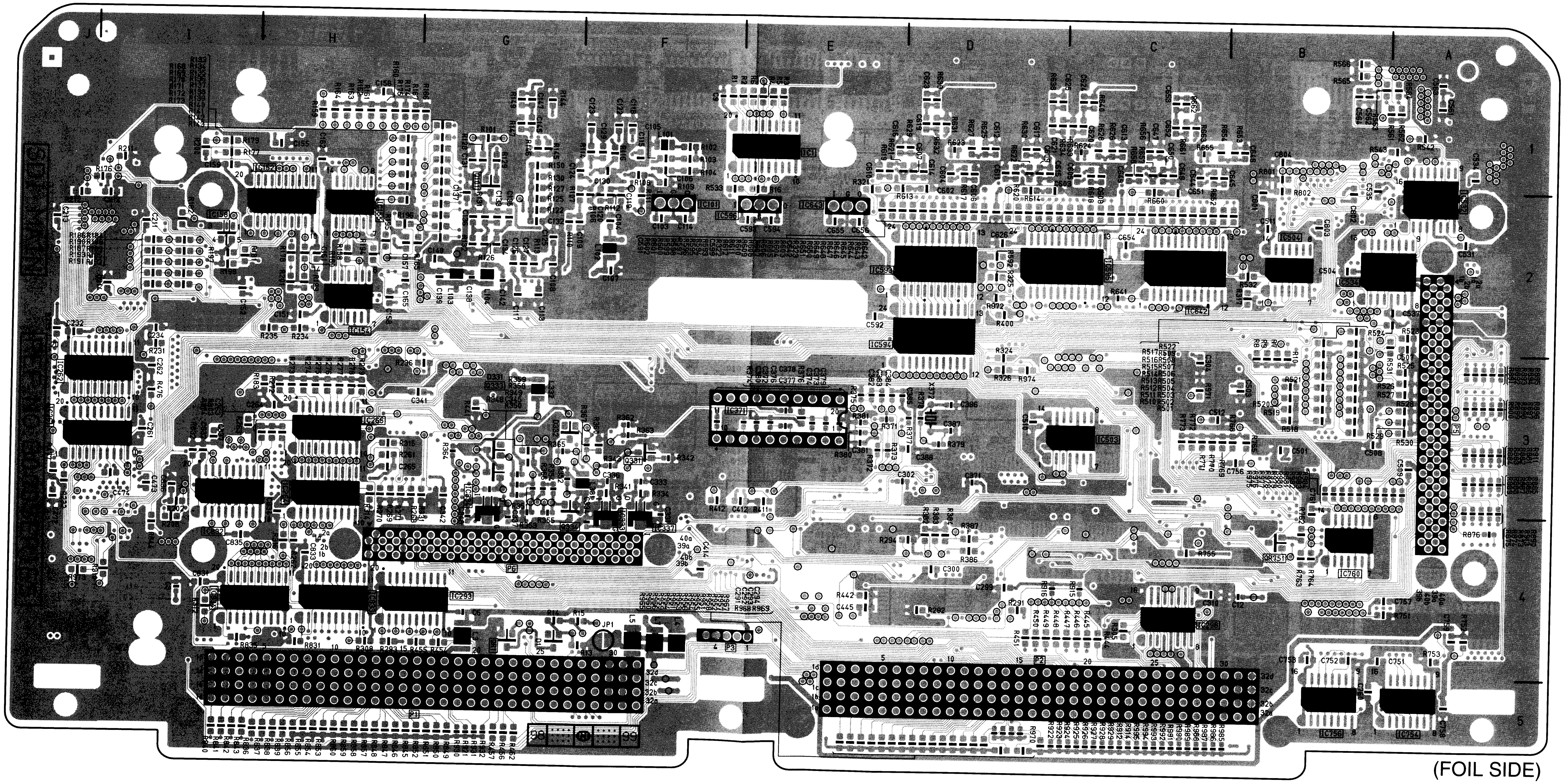

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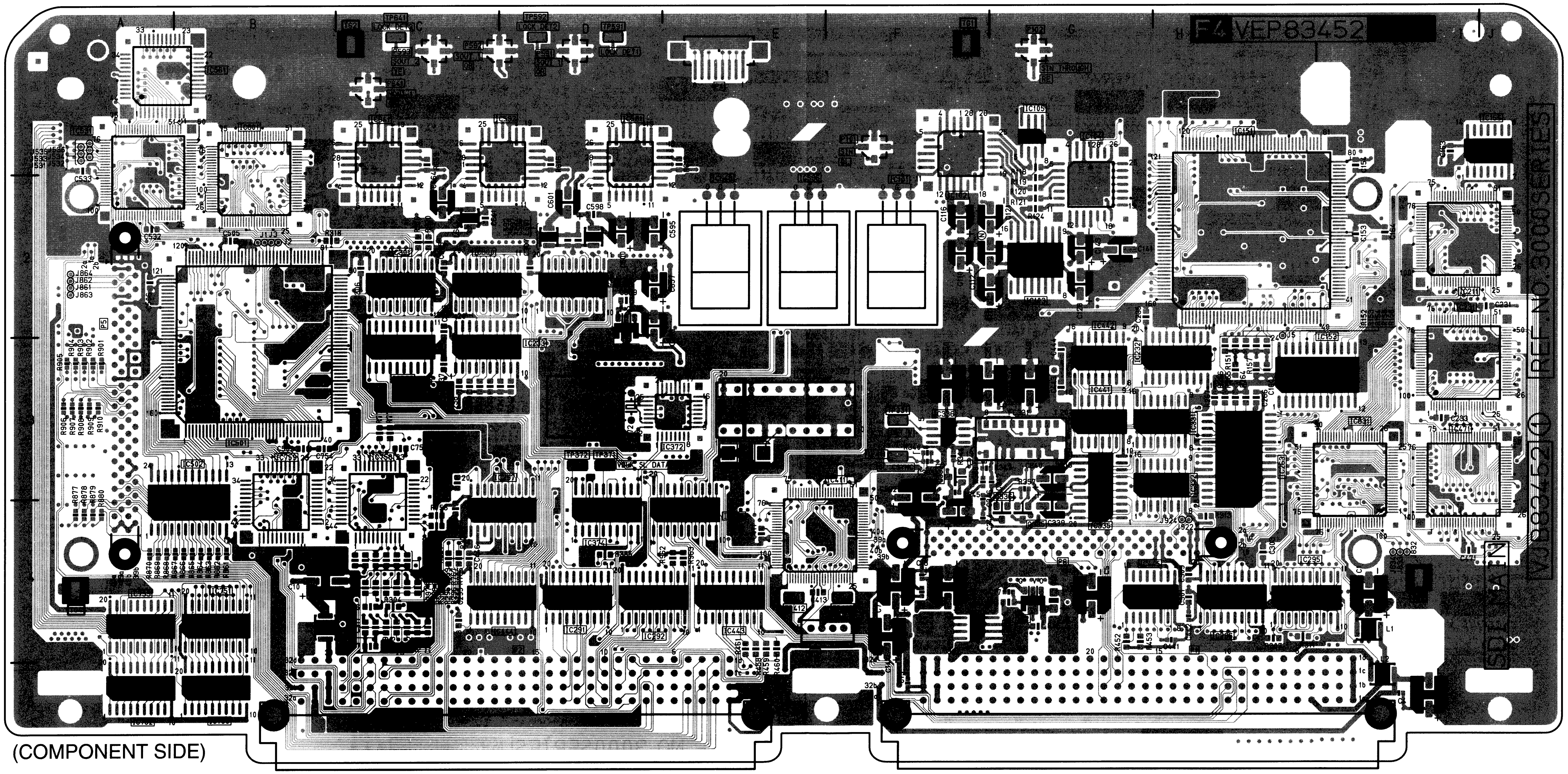
F4: SDI MAIN P.C. BOARD (VEP83452A)

REF	LOC
IC1	E1
IC298	C4
IC503	C3
IC532	A2
IC534	B2
IC593	D2
IC594	D2
IC595	D2
IC642	C2
IC754	A5
IC756	B5
IC760	B4
QR751	B4

(COMPONENT SIDE)


F4 VEP83452
REF NO.3000SERIES
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B
C
D
E
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(COMPONENT SIDE)

F5: PB P.C. BOARD (VEP83453A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2	G3	IC409	G3	IC600	I2	IC677	I2	QR750	F1
IC3	F3	IC450	D3	IC601	H2	IC678	H2	QR751	F1
IC4	F3	IC451	C3	IC602	G1	IC679	I2		
IC5	E1	IC453	E3	IC651	H3	IC750	I4		
IC51	B3	IC460	D4	IC652	I3	IC751	I4		
IC52	B3	IC461	E4	IC656	H3	IC752	I4		
IC53	B3	IC462	C4	IC657	I3	IC753	I4		
IC155	B1	IC463	C4	IC658	I3	IC754	I4		
IC156	B2	IC466	E3	IC660	I3	IC758	I4		
IC157	B2	IC467	D3	IC662	I3	IC900	E2		
IC158	B1	IC474	C3	IC672	I3	IC901	E1		
IC251	C1	IC477	C3	IC673	I2	IC903	E1		
IC403	G4	IC488	D3	IC674	I2	IC983	B3		
IC405	G3	IC551	H1	IC676	I2	IC984	B4		

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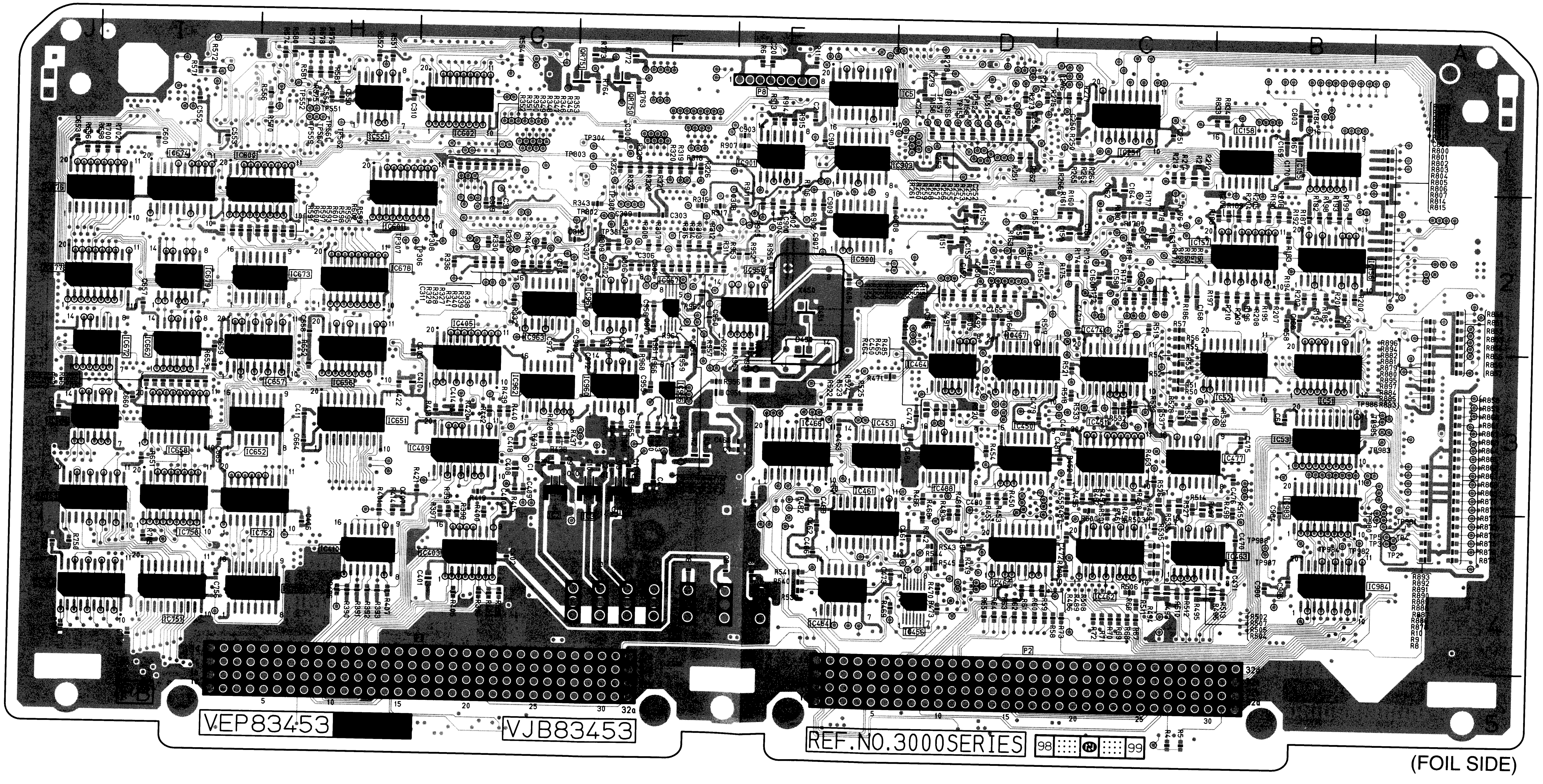

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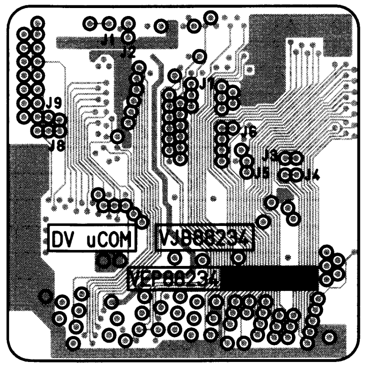
F5: PB P.C. BOARD (VEP83453A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	F3	IC404	G4	P8	F1	TP750	F1
IC50	B3	IC455	E3	P550	I1	TP751	F1
IC54	B3	IC458	E4	P850	A3	TP900	E1
IC55	C4	IC666	I3	TG50	B4	X450	E2
IC100	D3	IC667	I3	TG250	E1		
IC101	C3	IC755	I4	TG401	G2		
IC150	D2	IC756	I4	TP154	E1		
IC154	C2	IC800	B1	TP305	F1		
IC252	C1	IC902	E1	TP400	G4		
IC253	D1	IC980	B4	TP450	E4		
IC300	F1	IC981	B3	TP451	E4		
IC301	F2	IC982	B4	TP452	E4		
IC302	G1	P1	G5	TP453	E3		
IC303	G2	P2	D5	TP454	E3		

(COMPONENT SIDE)

DV UCOM P.C. BOARD (VEP88234L)



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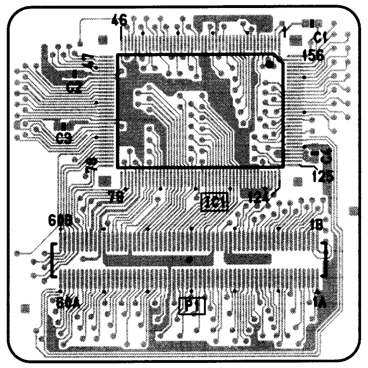

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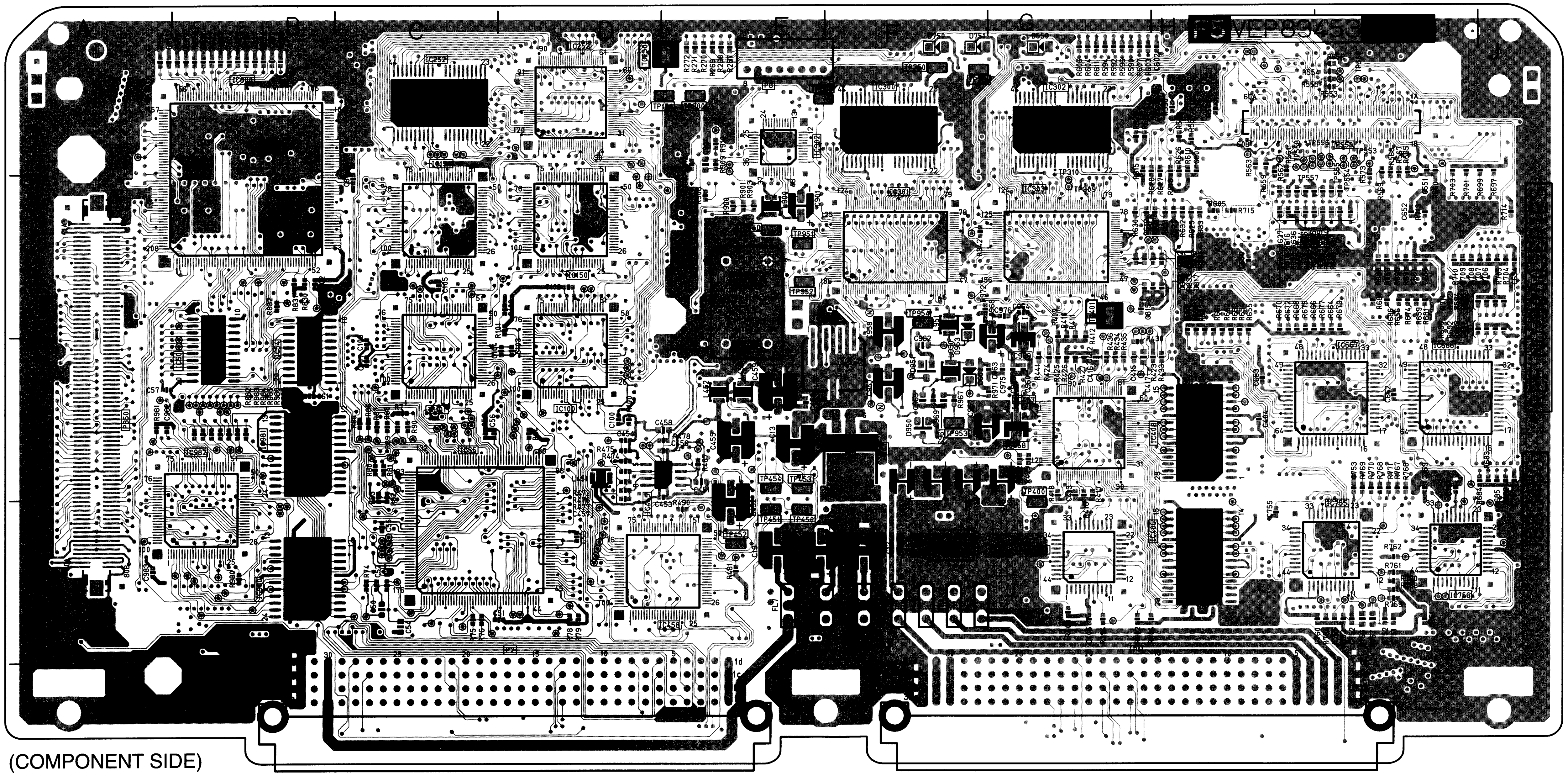

(COMPONENT SIDE)

F6: V OUT P.C. BOARD (VEP83454B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3002	F1	IC3018	C4	IC3035	D3	IC3082	I1	IC3111	A4	IC3137	F4	IC3171	A3	Q3004	C1
IC3003	E1	IC3019	D4	IC3036	D3	IC3087	A5	IC3112	A3	IC3138	G4	IC3172	A3	Q3005	C1
IC3004	F1	IC3020	C4	IC3037	C3	IC3088	B5	IC3113	A3	IC3139	G4	IC3177	C1	Q3006	B1
IC3005	E2	IC3021	C4	IC3038	C3	IC3089	B5	IC3114	A3	IC3142	G3	IC3178	A4	Q3007	C1
IC3006	D2	IC3022	D4	IC3061	H2	IC3093	E2	IC3116	A2	IC3143	F4	IC3179	D1	Q3008	C1
IC3007	B4	IC3025	B4	IC3063	G3	IC3094	E2	IC3118	A2	IC3146	B2	IC3180	D2	Q3010	G4
IC3008	B3	IC3026	B4	IC3064	H3	IC3095	E3	IC3120	C1	IC3148	B3	IC3181	D2	Q3011	E4
IC3009	D2	IC3027	G4	IC3065	H2	IC3099	A1	IC3121	B1	IC3149	B2	IC3182	D1	Q3013	F4
IC3010	B4	IC3028	C4	IC3071	H3	IC3100	E1	IC3122	C1	IC3150	B2	IC3184	D1		
IC3011	B4	IC3029	B4	IC3074	H1	IC3102	E1	IC3124	B1	IC3152	B2	IC3185	D1		
IC3012	H4	IC3030	C4	IC3078	H1	IC3104	D1	IC3126	B1	IC3153	E3	IC3187	I3		
IC3013	I4	IC3031	E4	IC3079	H1	IC3107	A1	IC3127	C1	IC3157	C2	IC3195	B3		
IC3014	H4	IC3032	E4	IC3080	I1	IC3108	B1	IC3129	C1	IC3158	D2	IC3199	F4		
IC3015	H4	IC3034	D2	IC3081	H1	IC3110	A4	IC3136	F4	IC3170	A4	IC3200	G3		

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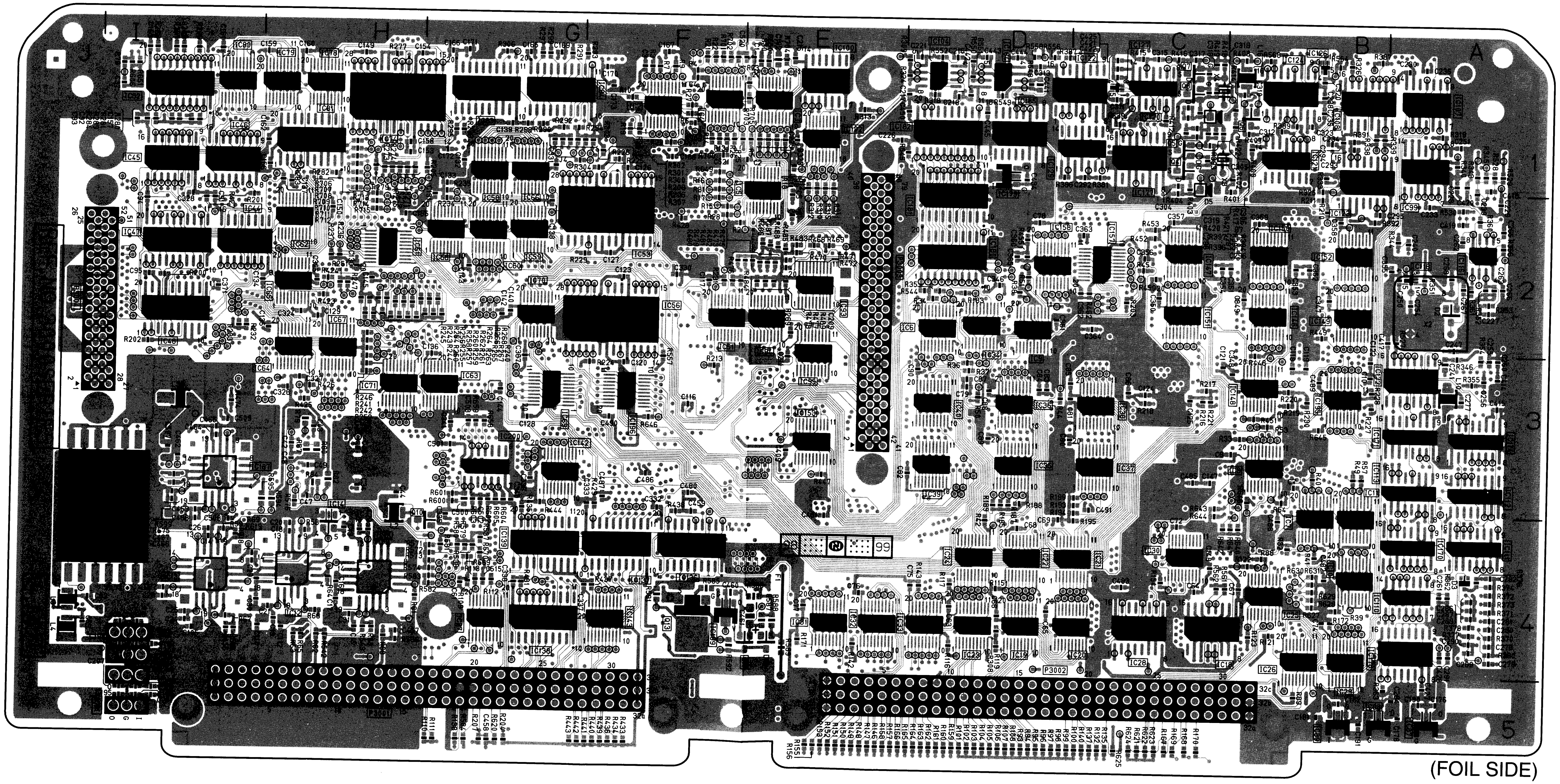

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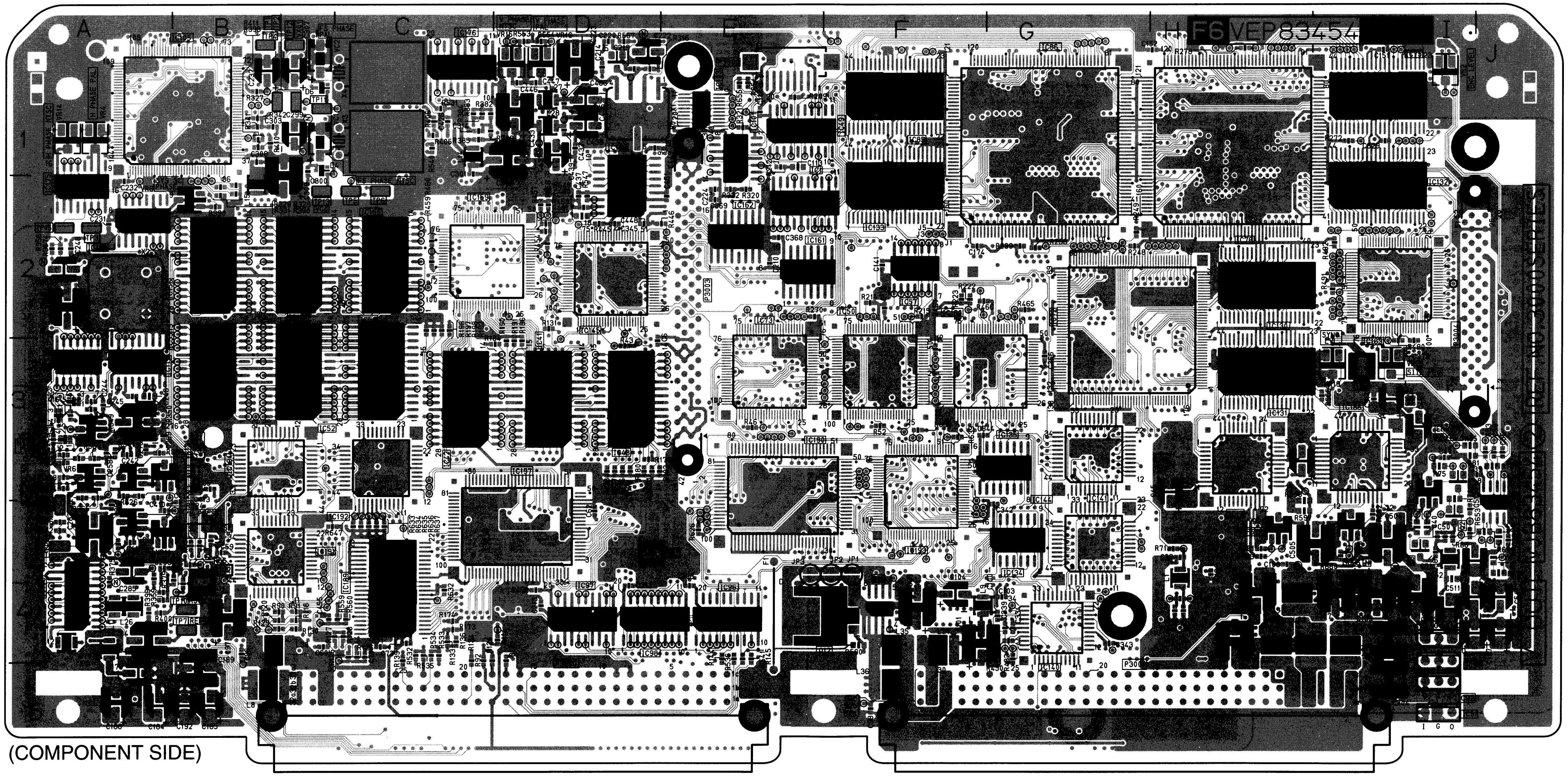
F6: V OUT P.C. BOARD (VEP83454B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3001	E2	IC3092	I5	IC3134	G4	IC3174	A3	P3002	D5	TP3004	B1	VR3002	I1	VR3025	I3
IC3016	J4	IC3096	E4	IC3135	G3	IC3175	A2	P3003	E2	TP3005	C2	VR3004	A1	X3001	E1
IC3017	H3	IC3098	E4	IC3140	G4	IC3176	C1	P3004	I2	TP3006	C2	VR3005	A3	X3002	A2
IC3041	D3	IC3101	E1	IC3141	G3	IC3183	E2	P3005	E1	TP3007	B4	VR3006	A3	X3003	C1
IC3042	C3	IC3103	E1	IC3144	G4	IC3186	I3	Q3001	I3	TP3008	A4	VR3007	A3	X3004	C1
IC3049	E1	IC3105	B1	IC3145	E2	IC3189	C4	Q3002	I4	TP3009	A4	VR3011	A4		
IC3050	F3	IC3106	A2	IC3154	B2	IC3190	E3	Q3003	I4	TP3010	B4	VR3012	A4		
IC3057	F2	IC3109	A4	IC3156	B2	IC3191	B4	Q3014	F4	TP3011	B1	VR3013	A3		
IC3072	G2	IC3115	A3	IC3159	C2	IC3192	C3	TG3001	E4	TP3012	B1	VR3014	A1		
IC3073	E3	IC3117	A3	IC3160	F3	IC3193	F3	TG3002	B4	TP3013	B2	VR3015	D1		
IC3075	I1	IC3119	A3	IC3161	E2	IC3194	B3	TG3003	I3	TP3015	A2	VR3016	D1		
IC3076	H1	IC3130	H2	IC3162	E2	IC3197	D4	TP3001	B1	VC3001	B1	VR3019	I3		
IC3090	I4	IC3131	H3	IC3163	I2	IC3201	I4	TP3002	B1	VC3002	B1	VR3020	I4		
IC3091	I5	IC3132	I2	IC3173	A3	P3001	G5	TP3003	A2	VR3001	I3	VR3021	H4		

(COMPONENT SIDE)

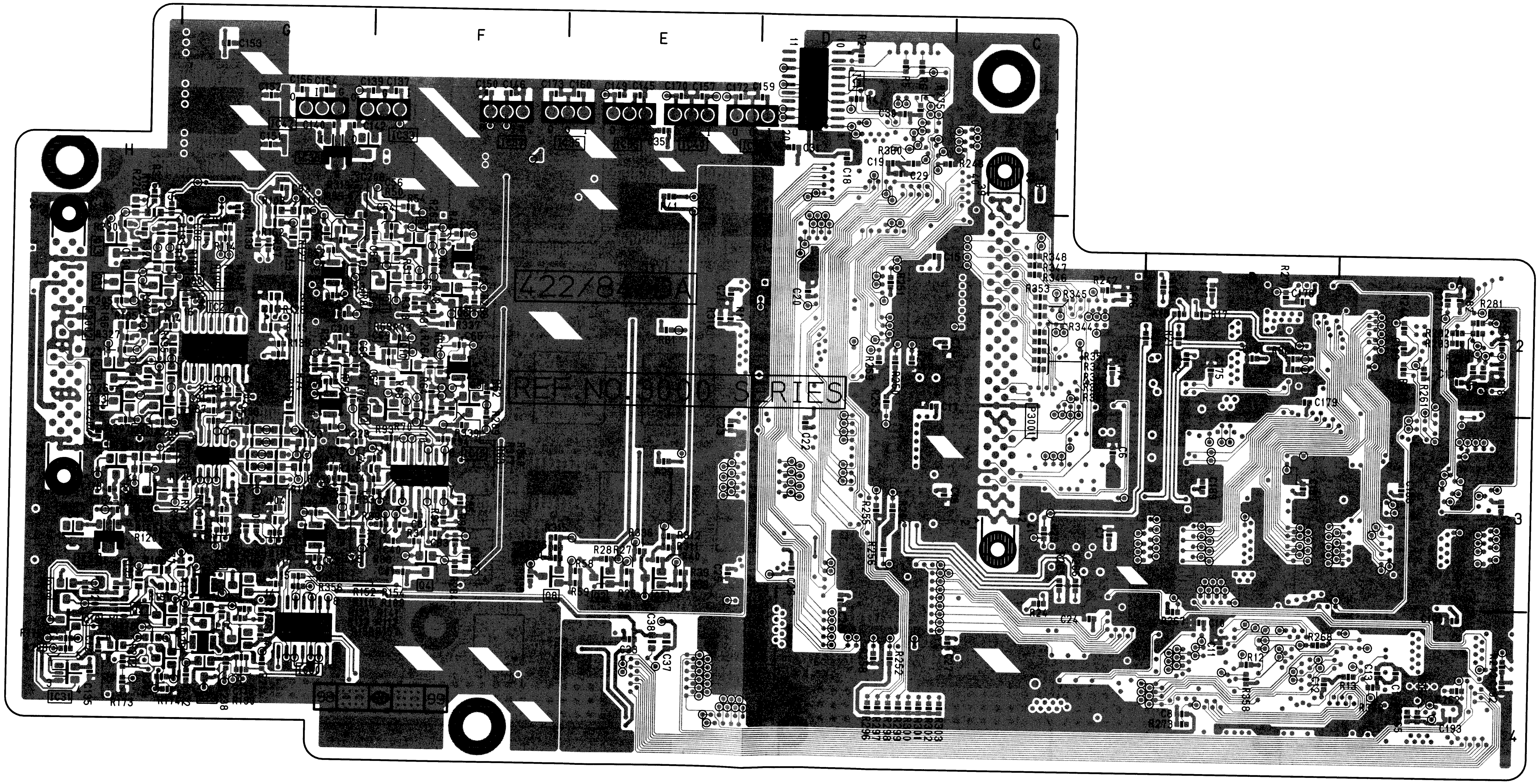


(COMPONENT SIDE)

4:2:2 DA SUB P.C. BOARD (VEP83385B)

REF	LOC	REF	LOC	REF	LOC
IC3001	D1	Q3004	F3	Q3029	H4
IC3015	F3	Q3005	E3		
IC3030	G4	Q3006	F2		
IC3031	H4	Q3007	F2		
IC3033	B1	Q3008	F3		
IC3034	D1	Q3009	F3		
IC3036	D1	Q3010	F2		
IC3038	G1	Q3011	F2		
IC3039	H3	Q3012	F3		
IC3040	D1	Q3015	H3		
IC3042	B1	Q3018	H4		
P3001	C2	Q3022	G4		
P3002	H2	Q3024	H3		
Q3002	E3	Q3027	G4		

(FOIL SIDE)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R344
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R261
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R360
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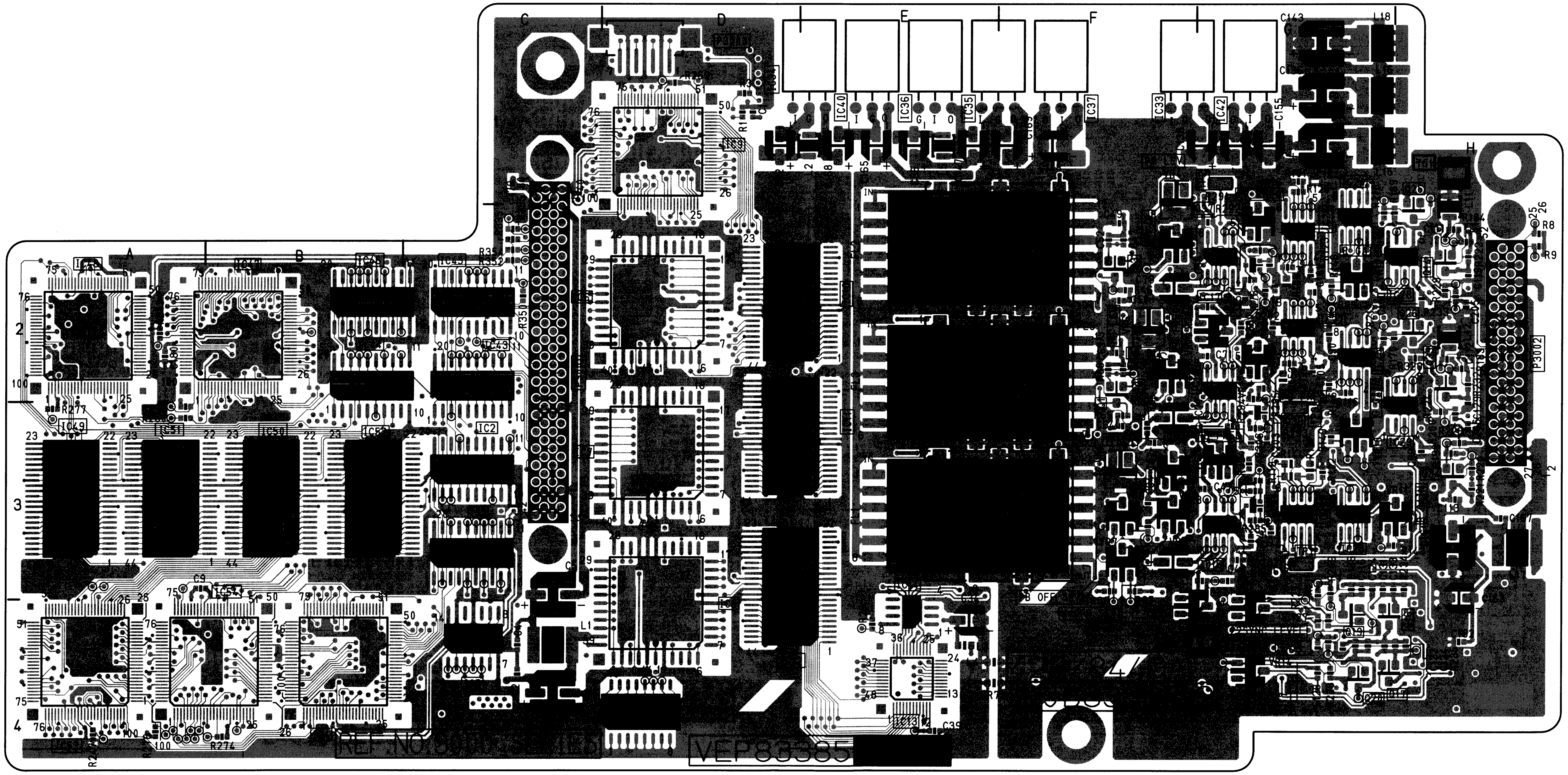
C18
C20
C22
R255
R252
R28
R27
R356
R152
R12
R13
R268
R358
C193
R173
C38
C37
C36
C2
R12

(FOIL SIDE)

4:2:2 DA SUB P.C. BOARD (VEP83385B)

REF	LOC	REF	LOC	REF	LOC
IC3002	C3	IC3017	G2	TP3002	G1
IC3003	C3	IC3018	G2	TP3003	G3
IC3004	B4	IC3054	B4	VR3001	F3
IC3005	C4	P3003	C1	VR3002	F3
IC3006	D2	Q3016	G4	VR3003	F2
IC3007	D3	Q3019	G4	VR3004	F1
IC3008	D4	Q3025	H1	VR3005	F2
IC3009	D1	Q3026	H2	VR3006	F2
IC3010	D2	Q3034	H3	VR3007	F3
IC3011	D3	Q3038	G3	VR3008	F3
IC3012	D3	SW3001	C4	VR3009	F3
IC3013	E4	TG3001	H1	VR3013	G4
IC3014	E4	TG3002	F4	VR3016	G2
IC3016	G3	TP3001	G3	VR3017	G2

(COMPONENT SIDE)

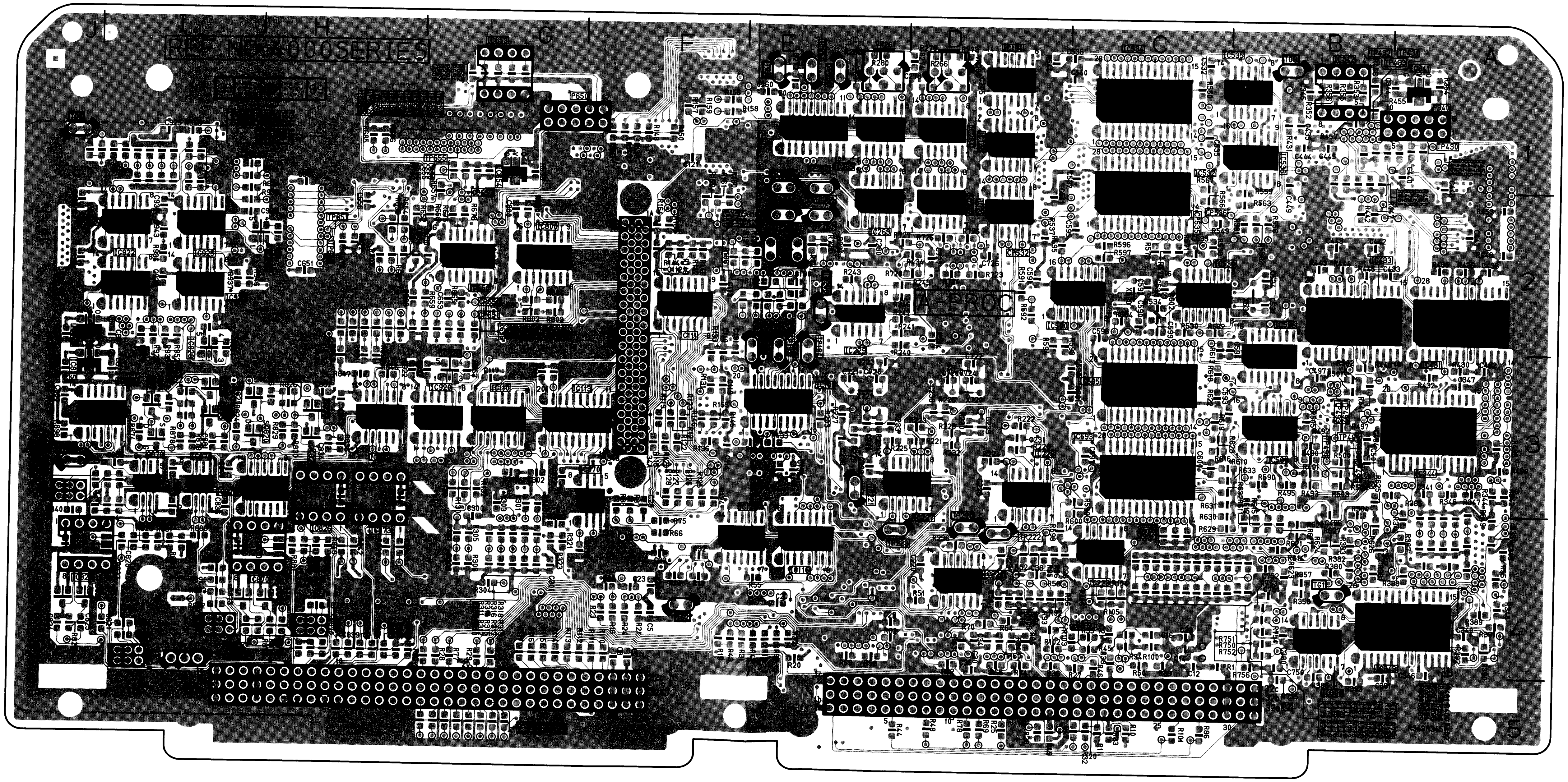


(COMPONENT SIDE)

F7: A PROC P.C. BOARD (VEP84326C)

REF	LOC	REF	LOC	REF	LOC
IC21	D2	IC343	A4	IC920	G3
IC110	G3	IC344	A3	IC970	F3
IC111	F2	IC530	C2		
IC113	G3	IC534	C1		
IC116	E4	IC535	B1		
IC120	D1	IC536	B1		
IC121	F4	IC590	C2		
IC191	E3	IC591	B3		
IC194	D1	IC595	C3		
IC220	D4	IC596	B2		
IC226	D3	IC654	G1		
IC227	E3	IC820	H3		
IC229	E2	IC822	H3		
IC341	A1	IC874	I3		

(COMPONENT SIDE)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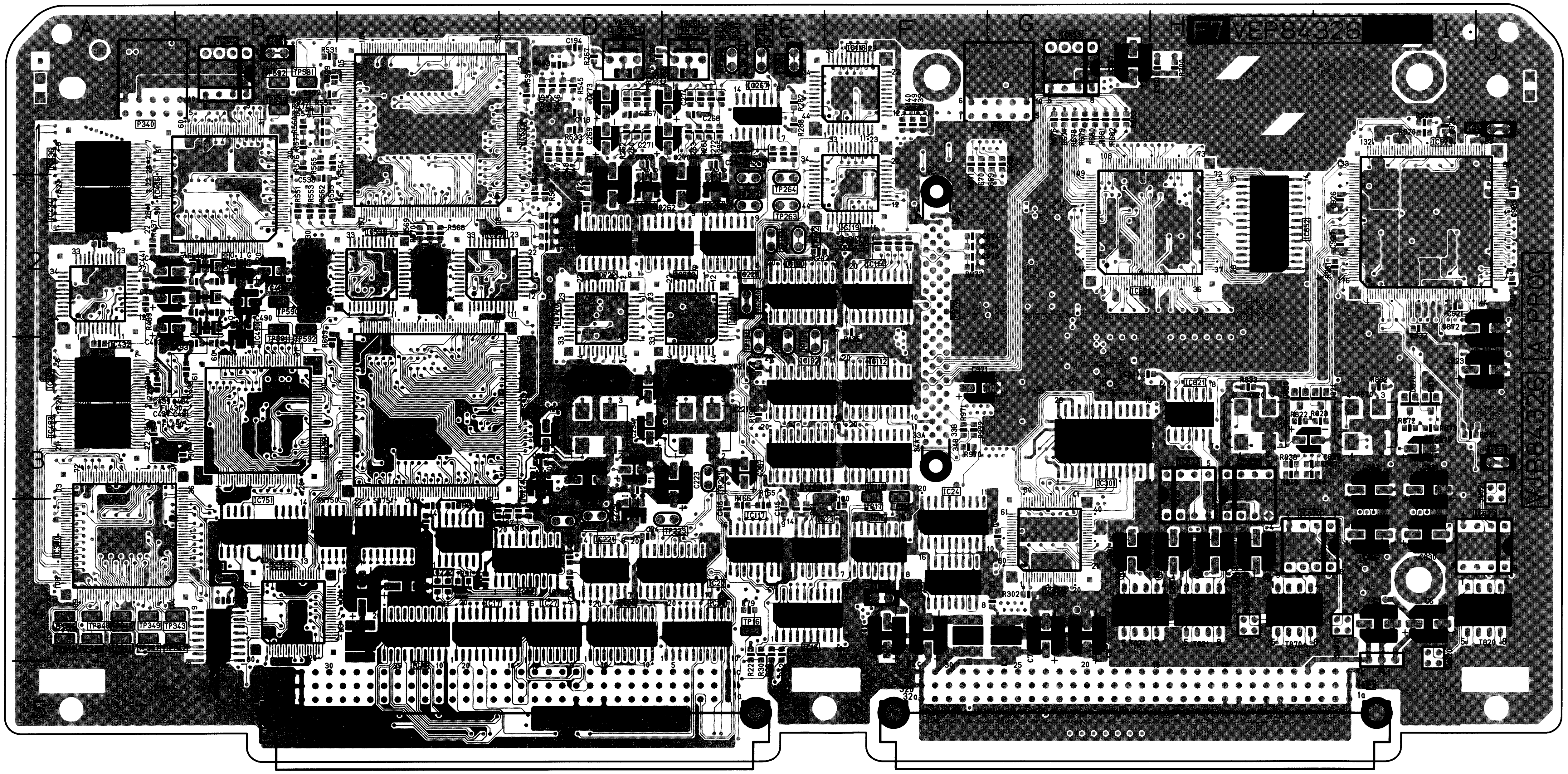
A-PROC

(FOIL SIDE)

F7: A PROC P.C. BOARD (VEP84326C)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC15	F4	IC117	E4	IC436	A1	IC873	H4	TG260	E2	TP345	A4
IC16	F4	IC118	F1	IC490	B2	IC921	I2	TP190	E2	TP346	A4
IC17	C4	IC119	F2	IC491	A3	IS342	B1	TP191	F2	TP347	A4
IC18	C4	IC190	E2	IC492	B3	IS653	G1	TP193	E2	TP348	A4
IC19	F4	IC192	E3	IC493	A3	P1	G5	TP194	E2	TP349	A4
IC20	E4	IC193	E3	IC531	C2	P2	D5	TP220	D4	X220	D3
IC22	D4	IC221	D4	IC533	C1	T821	H4	TP221	E3	X221	E3
IC23	F4	IC224	D3	IC592	C2	T871	G4	TP222	D4	X530	B2
IC25	E4	IC225	D4	IC594	C3	TG1	B4	TP223	E4	X590	C2
IC26	D4	IC340	A4	IC651	H2	TG2	F4	TP340	A4		
IC27	D4	IC342	B1	IC652	H2	TG3	J3	TP341	A4		
IC112	F3	IC430	B2	IC653	G1	TG4	J1	TP342	A4		
IC114	F2	IC434	A2	IC821	H3	TG5	E1	TP343	A4		
IC115	F3	IC435	B2	IC826	H4	TG6	B1	TP344	A4		

(COMPONENT SIDE)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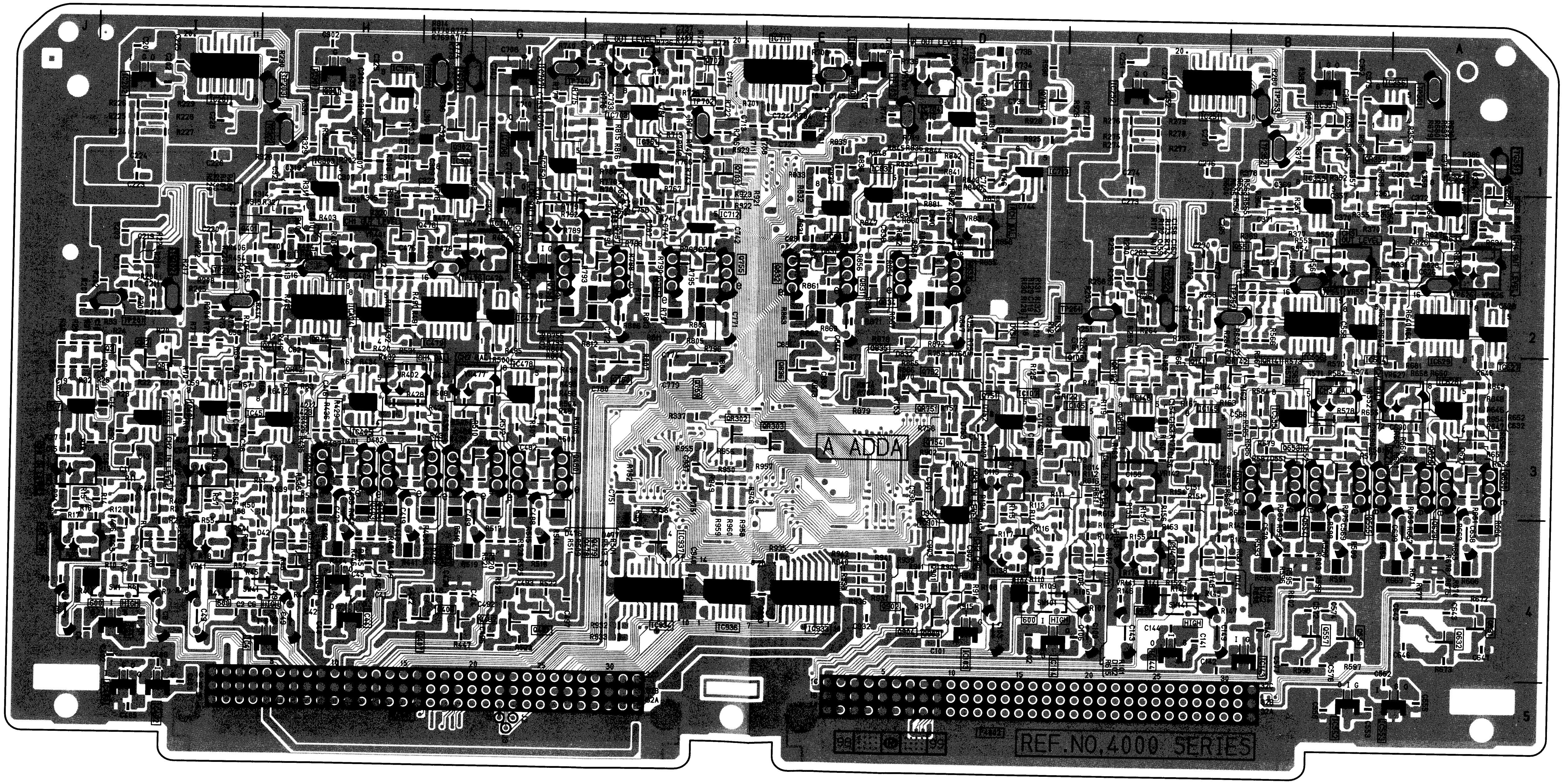
F7 VEP84326
VJB84326
A-PROC
TP340
TP343
TP344
TP349
IC24
IC27
IC17
IC821
IC301
TP264
TP263
TP224
TP220

(COMPONENT SIDE)

F8: A ADDA P.C. BOARD (VEP84301C)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC4003	I4	IC4304	G2	IC4552	B5	IC4710	G2	Q4302	G1	Q4632	A4	Q4903	D4
IC4004	H4	IC4306	H1	IC4553	A5	IC4711	E1	Q4351	B1	Q4701	D1	Q4904	D4
IC4043	H4	IC4351	B1	IC4554	B2	IC4712	F2	Q4352	A2	Q4702	F1	QR4301	H1
IC4044	H4	IC4353	B2	IC4555	B3	IC4713	D1	Q4401	H2	Q4703	F1	QR4302	F3
IC4103	D4	IC4354	A2	IC4556	B2	IC4751	F1	Q4406	G4	Q4704	D1	QR4303	E3
IC4104	D4	IC4356	B1	IC4627	A2	IC4752	G1	Q4407	G4	Q4751	D3	QR4351	B1
IC4143	B4	IC4402	I5	IC4628	A3	IC4831	E2	Q4476	H2	Q4752	D3	QR4751	D3
IC4144	C4	IC4403	I5	IC4629	A2	IC4832	E2	Q4481	G4	Q4754	D3		
IC4201	I1	IC4404	H2	IC4701	E1	IC4901	D4	Q4482	G4	Q4759	F3		
IC4202	I1	IC4405	H3	IC4703	F1	IC4933	E4	Q4551	B2	Q4760	F3		
IC4251	C1	IC4406	H2	IC4704	D1	IC4934	F4	Q4556	B4	Q4835	E3		
IC4252	C1	IC4477	G2	IC4707	G1	IC4936	F4	Q4557	B4	Q4836	E3		
IC4301	H1	IC4478	G3	IC4708	G1	IC4937	F4	Q4626	B2	Q4901	D4		
IC4303	H2	IC4479	G2	IC4709	G2	Q4301	H1	Q4631	A4	Q4902	D4		

(FOIL SIDE)

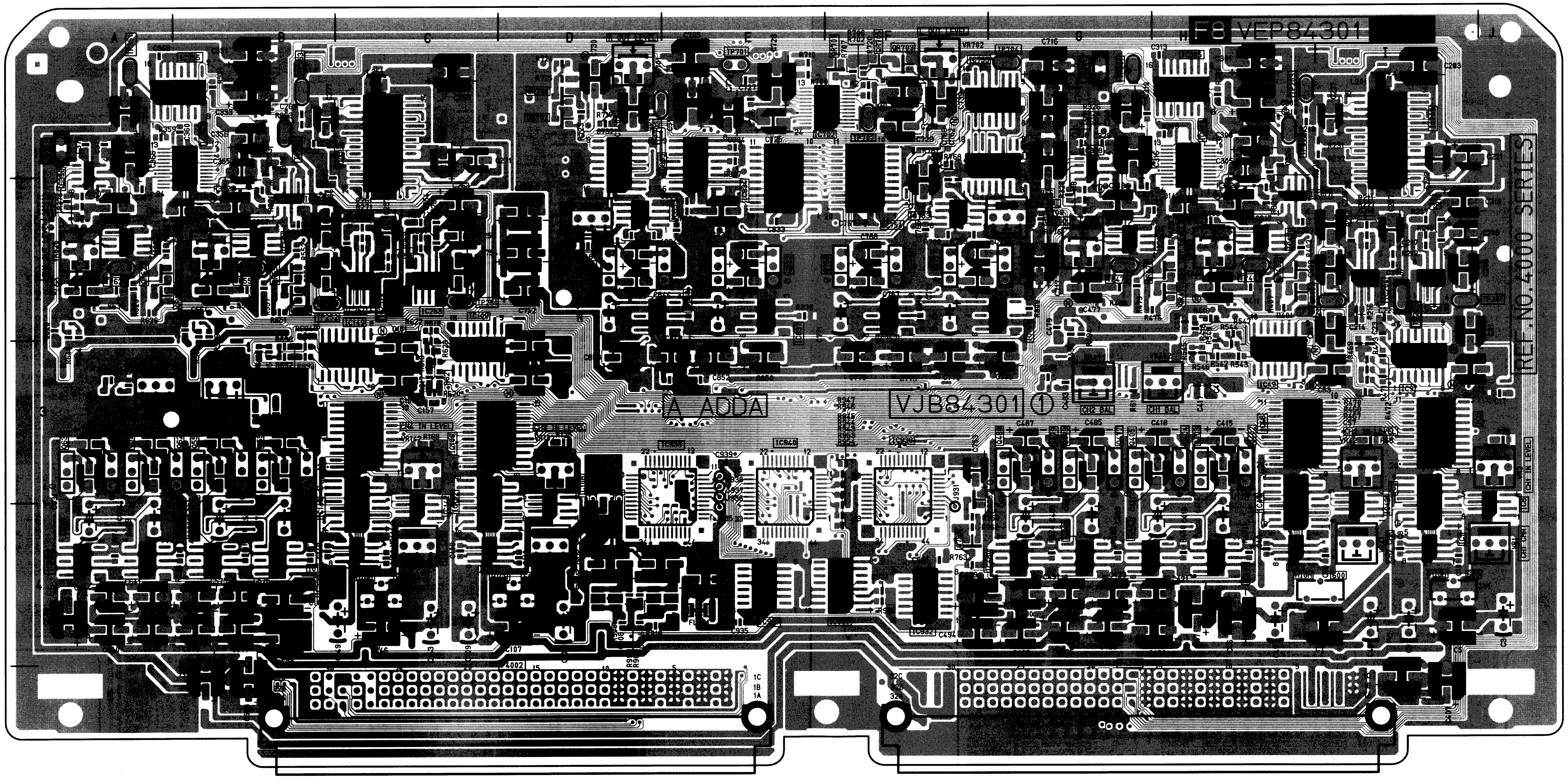


(FOIL SIDE)

F8: A ADDA P.C. BOARD (VEP84301C)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC4302	H1	IC4551	B2	IC4834	E2	Q4403	H3	Q4630	A3	QR4551	B2	TP4351	A1	VR4551	B2
IC4305	H1	IC4557	B4	IC4835	E1	Q4404	H3	Q4753	F4	QR4552	B2	TP4352	B1	VR4552	B3
IC4307	I2	IC4558	B4	IC4836	D1	Q4405	G3	Q4755	F2	QR4626	A2	TP4401	H2	VR4626	A2
IC4308	G1	IC4626	A2	IC4837	E2	Q4477	G3	Q4756	F2	QR4627	A2	TP4476	G2	VR4627	A3
IC4352	B1	IC4630	A4	IC4838	D2	Q4478	G3	Q4757	F2	QR4701	F1	TP4551	B2	VR4701	D1
IC4355	A1	IC4631	A4	IC4931	E4	Q4479	G3	Q4758	G2	QR4702	D1	TP4626	A2	VR4702	F1
IC4357	B2	IC4702	F1	IC4932	F4	Q4480	G3	Q4831	E2	QR4703	F1	TP4701	E1	VR4751	G2
IC4358	A1	IC4753	F2	IC4935	F4	Q4552	B3	Q4832	E2	QR4704	D1	TP4702	F1	VR4831	D2
IC4401	H2	IC4754	F2	IC4938	F3	Q4553	B3	Q4833	D2	QR4705	F1	TP4703	D1		
IC4407	G4	IC4755	G1	IC4939	E3	Q4554	B3	Q4834	E2	QR4752	F3	TP4704	G1		
IC4408	H4	IC4756	G1	IC4940	E3	Q4555	B3	QR4401	I2	TG4301	G1	VR4401	H2		
IC4476	G2	IC4757	F2	P4001	G5	Q4627	A3	QR4402	I2	TG4351	A1	VR4402	G3		
IC4480	G4	IC4758	G2	P4002	D5	Q4628	A3	QR4476	H2	TP4301	G1	VR4476	G2		
IC4481	G4	IC4833	D2	Q4402	H3	Q4629	A3	QR4477	H2	TP4302	I1	VR4477	G3		

(COMPONENT SIDE)



(COMPONENT SIDE)

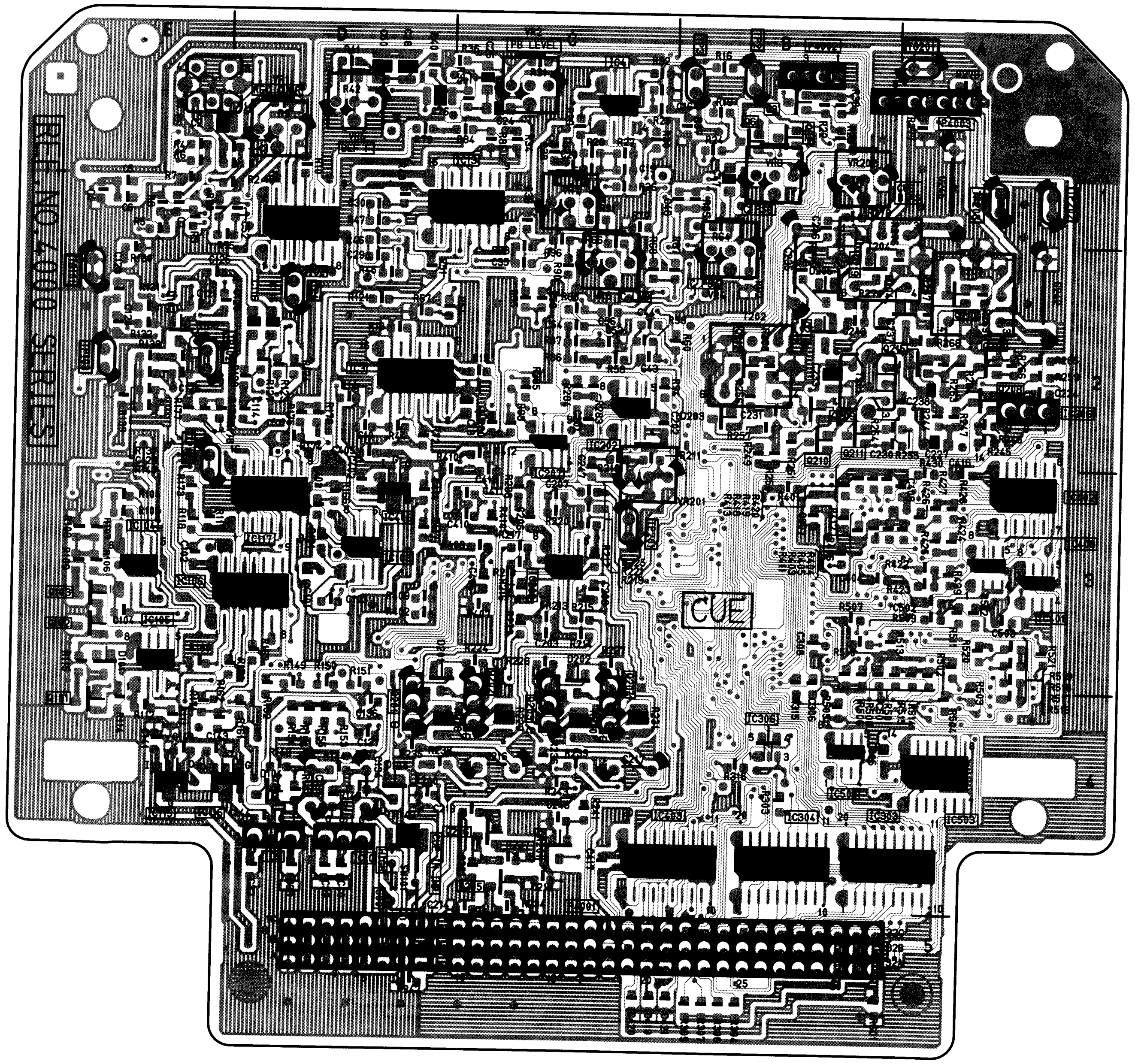
H1: CUE P.C. BOARD (VEP84302B)

REF	LOC	REF	LOC
IC4003	D2	IC4401	A3
IC4004	C1	IC4402	A3
IC4013	C1	IC4403	B4
IC4103	D3	IC4406	D3
IC4106	D3	IC4408	A3
IC4115	E4	Q4003	B1
IC4116	D4	Q4205	C4
IC4117	D3	Q4206	C4
IC4202	C2	QR4201	C4
IC4203	C3		
IC4207	C2		
IC4303	A4		
IC4304	B4		
IC4306	B4		

(FOIL SIDE)

REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC4005	C1	IC4201	C2	Q4002	B1	VR4003	B1
IC4006	D1	IC4204	D4	Q4201	D4	VR4005	D1
IC4008	C2	IC4205	C4	Q4202	C4	VR4006	C2
IC4009	D4	IC4301	B4	Q4203	C4		
IC4010	D4	IC4302	B4	Q4204	C4		
IC4011	C2	IC4305	B4	QR4001	B1		
IC4012	B1	IC4307	B3	SW4002	C2		
IC4014	D1	IC4308	B3	TG4101	E2		
IC4015	C1	IC4404	B3	TP4001	D2		
IC4101	D3	IC4405	A3	TP4101	E2		
IC4108	E2	IC4407	C3	TP4102	E2		
IC4109	E2	P4001	C5	TP4103	E2		
IC4110	C4	P4002	B1	TP4201	C3		
IC4111	E3	Q4001	B1	VR4002	C1		

(COMPONENT SIDE)



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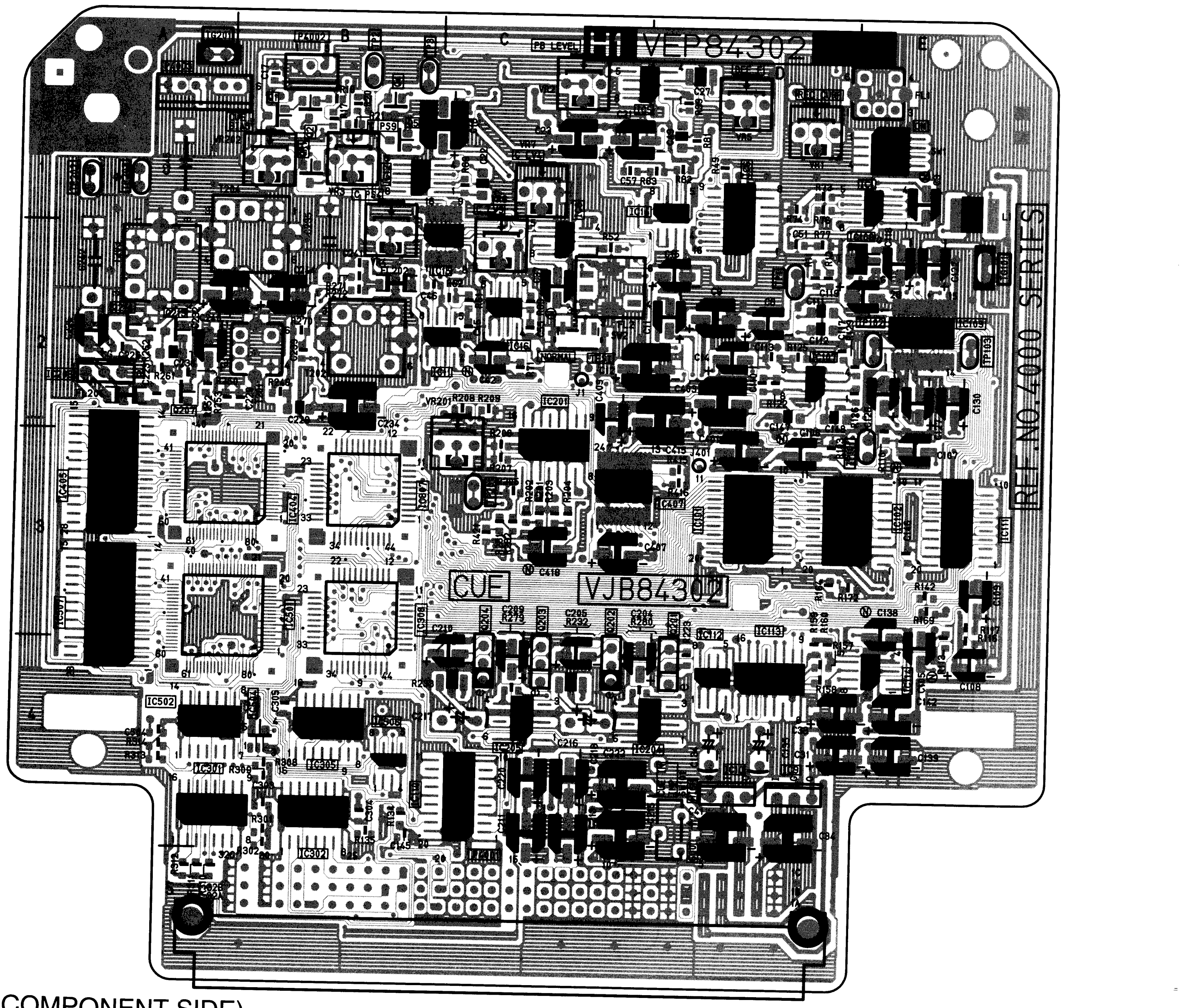

(COMPONENT SIDE)

H2/H3/H4: EQ P.C. BOARD (VEP85177A)

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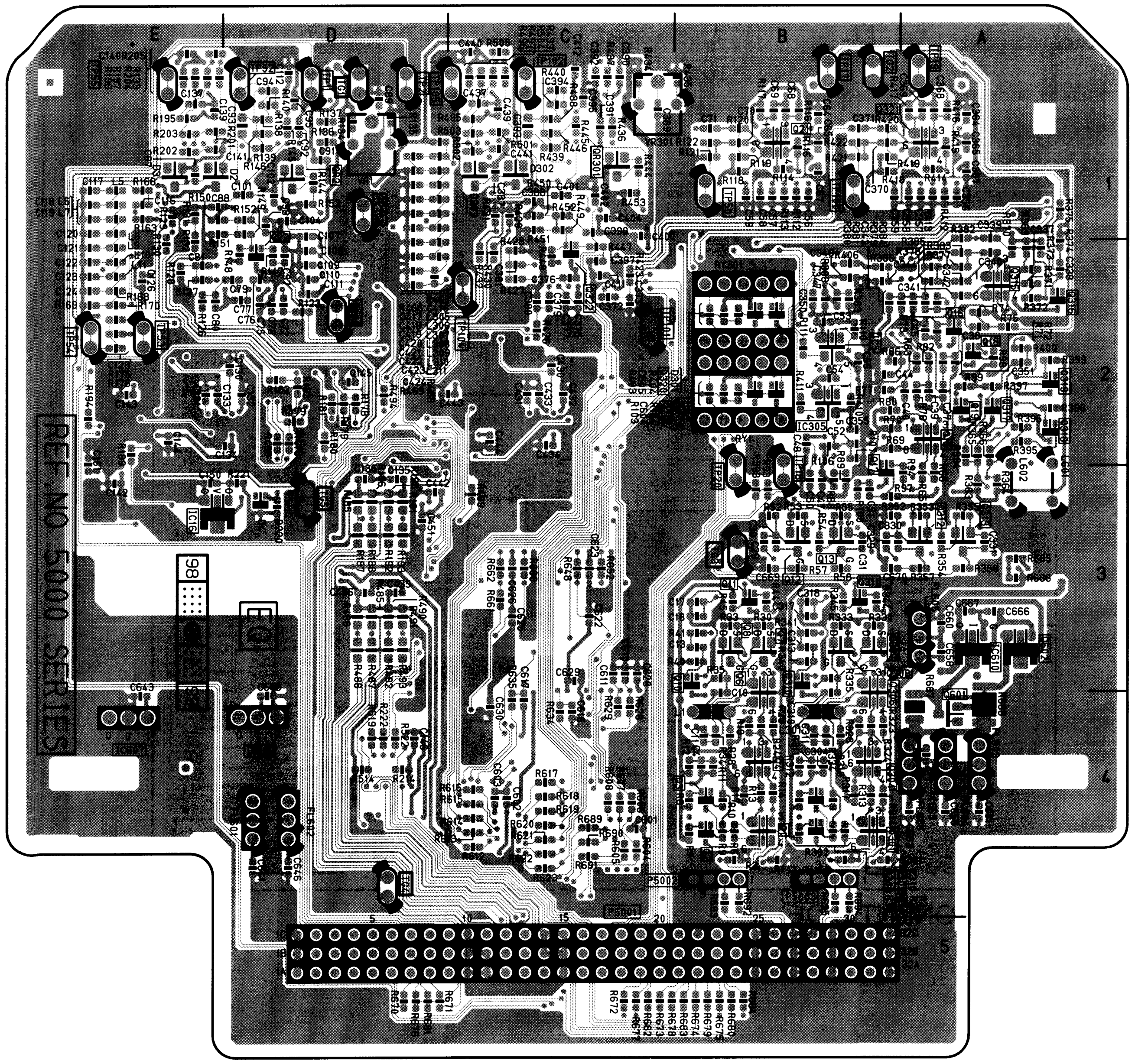
IC5005	B2	Q5013	B3	Q5307	B3	Q5601	A4
IC5016	E3	Q5015	B2	Q5308	B3	Q5602	A3
IC5305	B2	Q5016	A2	Q5310	B4		
IC5610	A3	Q5017	B3	Q5311	B3		
Q5001	B4	Q5018	A2	Q5312	B3		
Q5002	B4	Q5019	A2	Q5313	A3		
Q5003	B4	Q5020	B2	Q5315	A2		
Q5004	B4	Q5021	B1	Q5316	A2		
Q5006	B4	Q5022	D2	Q5317	A2		
Q5007	B3	Q5301	B4	Q5318	A2		
Q5008	B3	Q5302	B4	Q5319	A2		
Q5010	B4	Q5303	B4	Q5320	B2		
Q5011	B3	Q5304	B4	Q5321	B1		
Q5012	B3	Q5306	B4	Q5322	C2		

(FOIL SIDE)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC5001	B3	IC5017	D4	IC5602	C4	Q5023	E1	TP5001	D1	TP5054	E2
IC5002	A2	IC5301	A3	IC5603	C4	Q5024	E1	TP5002	D1	TP5055	E1
IC5003	B2	IC5302	A2	IC5604	C4	Q5305	B4	TP5010	B1	TP5100	B1
IC5004	B2	IC5303	B2	IC5605	C3	Q5309	B3	TP5011	B1	TP5101	C2
IC5006	B1	IC5306	A1	IC5606	C3	Q5314	A3	TP5015	B4	TP5102	C1
IC5007	D2	IC5307	C2	IC5607	E4	Q5323	D1	TP5016	B4	TP5103	D1
IC5008	D1	IC5308	C1	IC5608	D4	Q5324	D1	TP5017	B1	TP5104	C2
IC5009	D1	IC5309	C1	IC5609	A3	RY5001	B2	TP5018	B3	TP5105	C1
IC5010	E2	IC5310	D2	P5001	C5	RY5301	B2	TP5019	A1	VR5001	D1
IC5011	D2	IC5311	C2	P5002	B4	TG5001	D1	TP5020	B3	VR5301	C1
IC5012	E2	IC5312	C2	P5003	B4	TG5002	B1	TP5050	B1		
IC5013	E1	IC5313	C1	Q5005	B4	TG5003	B3	TP5051	D2		
IC5014	D2	IC5600	C4	Q5009	B3	TG5004	D4	TP5052	D1		
IC5015	D3	IC5601	C4	Q5014	B3	TG5005	D3	TP5053	E2		

(COMPONENT SIDE)



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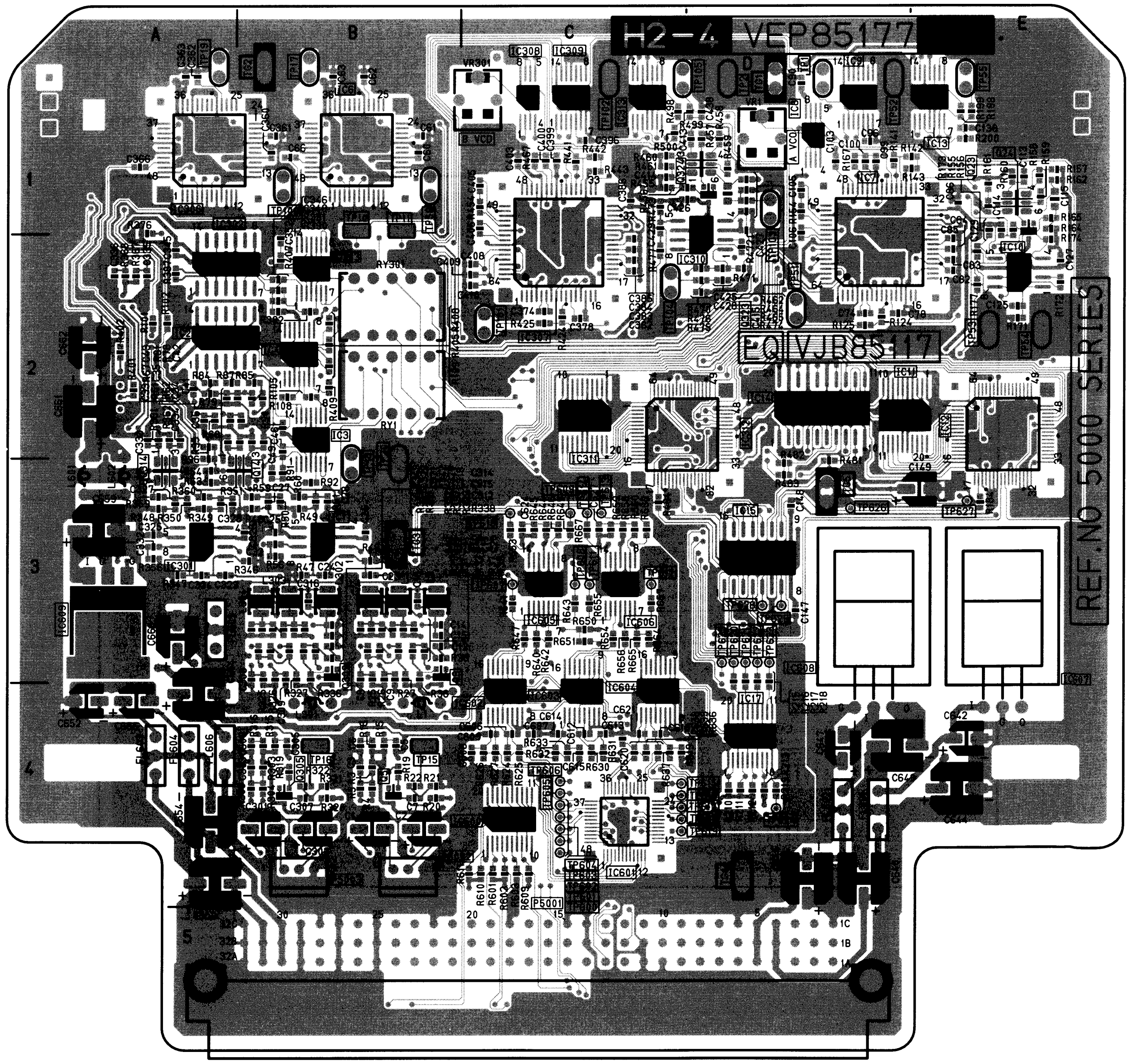


(COMPONENT SIDE)

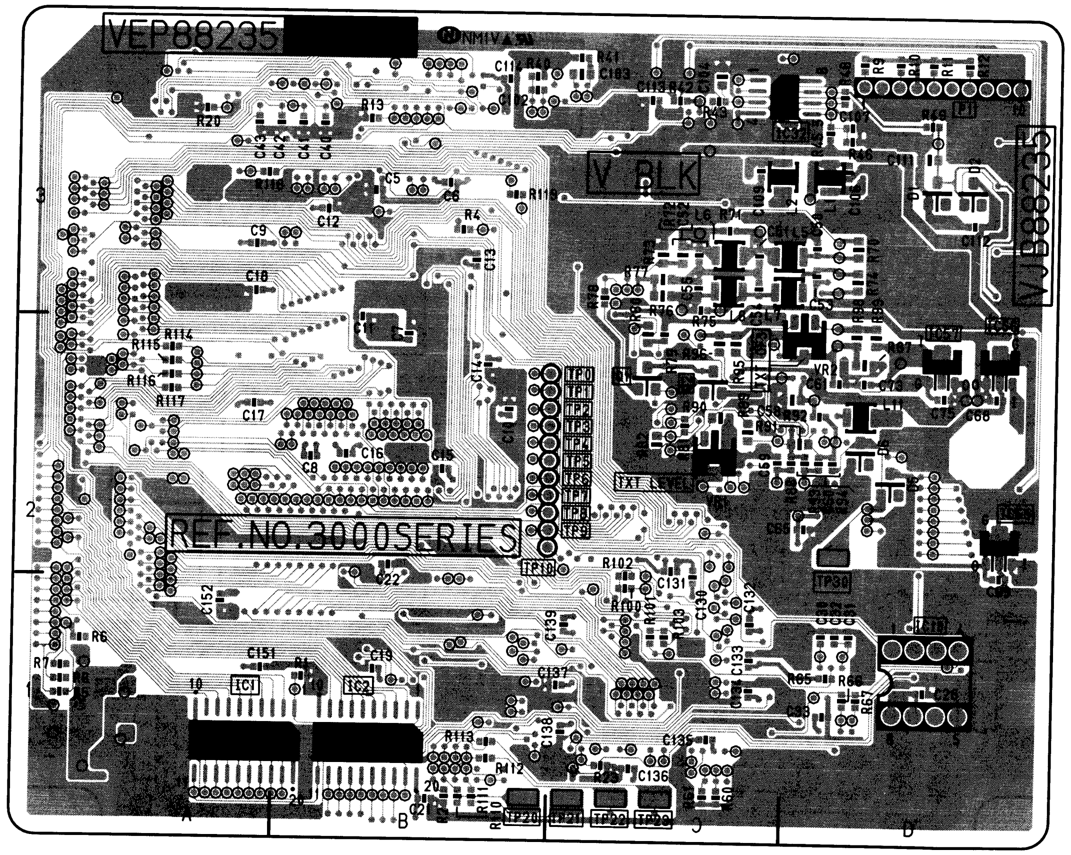
V BLK P.C. BOARD (VEP88235A)

REF	LOC	REF	LOC
IC1	A1	VR2	D2
IC2	B1		
IC32	D3		
IC55	D2		
IC56	D2		
IC57	D2		
Q1	C2		
Q2	C2		
TP20	B1		
TP21	C1		
TP22	C1		
TP23	C1		
TP30	D2		
VR1	C2		

(FOIL SIDE)

REF	LOC	REF	LOC
IC3	B1	IC43	D2
IC4	B1	IC45	D1
IC5	B2	IC51	B2
IC6	B2	IC52	B1
IC7	A3	P20	A2
IC8	B3	Q3	C2
IC9	C3	X1	D3
IC10	D1	X2	D3
IC30	C3		
IC31	C3		
IC33	C3		
IC40	C1		
IC41	C3		
IC42	D2		

(COMPONENT SIDE)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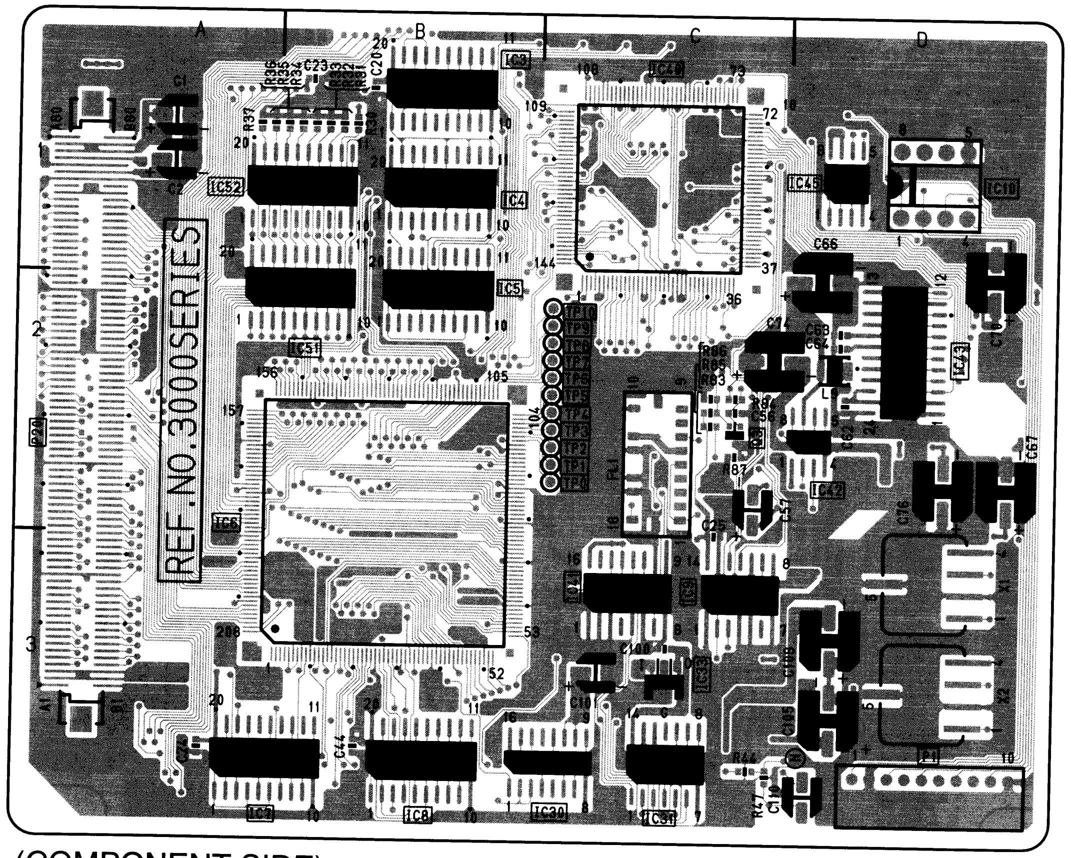
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IC31
IC40
IC42
IC43
IC45
IC51
IC52
P20
X1
X2
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(COMPONENT SIDE)

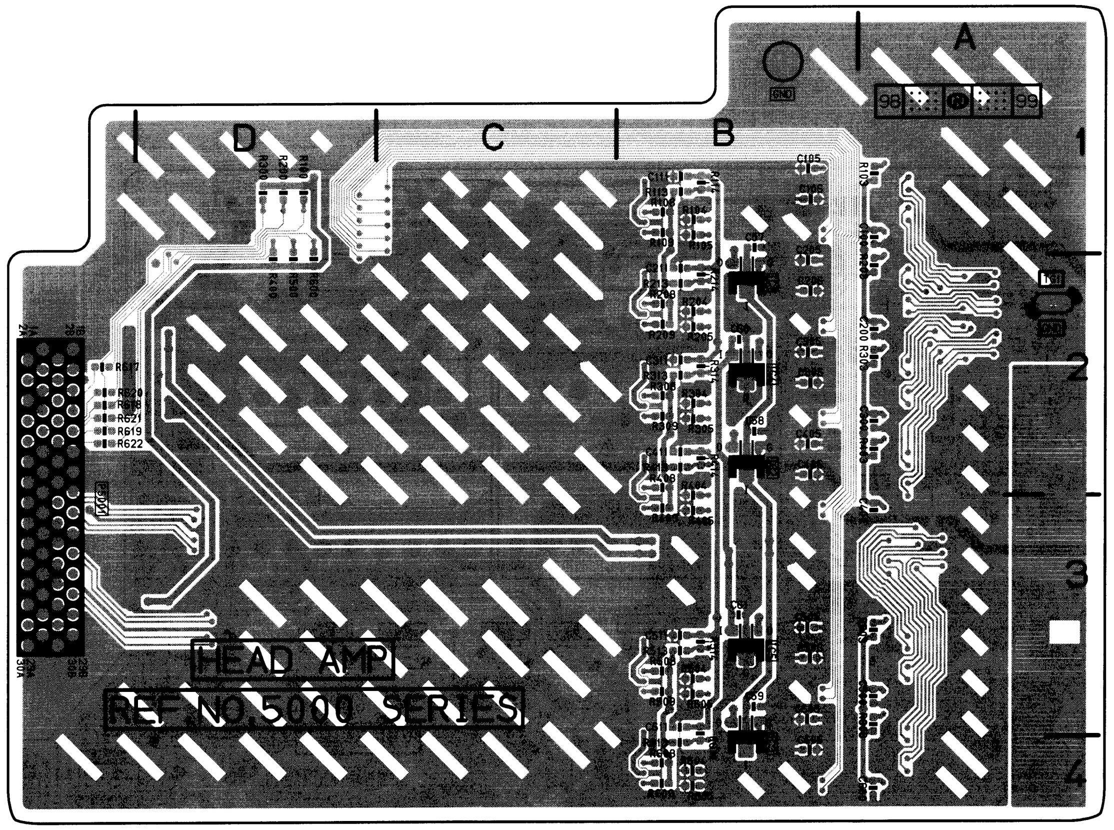
HEAD AMP P.C. BOARD (VEP85174A)

REF	LOC	REF	LOC
TG5001	A2	Q5301	B2
P5003	A2	Q5400	B2
P5002	A3	Q5401	B2
IC5100	B1	Q5500	B3
IC5200	B2	Q5501	B3
IC5300	B2	Q5600	B4
IC5400	B2	Q5601	B4
IC5500	B3	IC5010	D1
IC5600	B4	P5001	E2
Q5100	B1		
Q5101	B1		
Q5200	B2		
Q5201	B2		
Q5300	B2		

(FOIL SIDE)

REF	LOC
IC5001	B2
IC5002	B2
IC5003	B4
IC5004	B2
IC5005	B3

(COMPONENT SIDE)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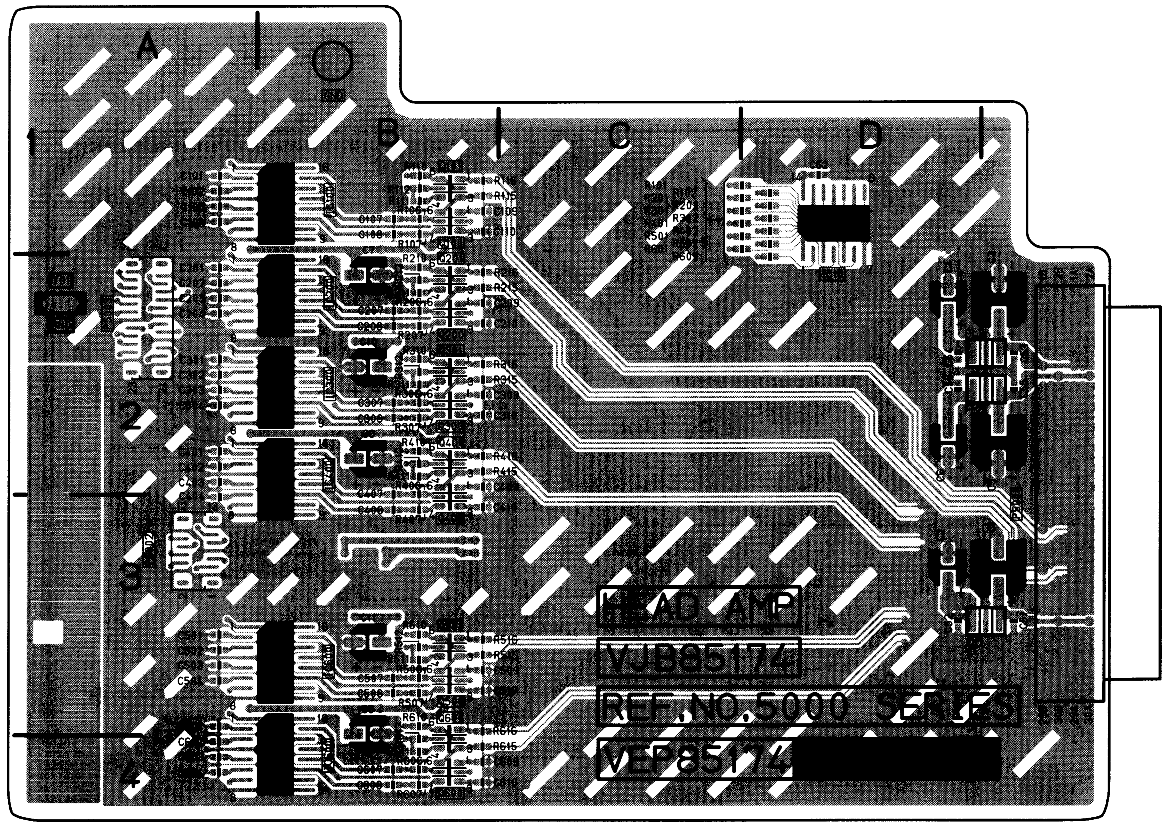
(FOIL SIDE)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VJB85174
REF.NO.5000 SERIES
VEP85174

(COMPONENT SIDE)

POWER 1 P.C. BOARD (VEP81183A)

REF	LOC
Q1	B3
Q2	B4
Q4	C4
Q5	C5
IC1	B4
IC2	B5
IC3	C3
VR2	B5
P1	A3
P2	A2
P3	A2
P4	C4

(FOIL SIDE)

JAPAN ONLY

⚠ 警　告

感電注意

AC100V の加わっている活電部（充電部、活電部）に直接触れないでください。

+ 感電ややけどの可能性があります。

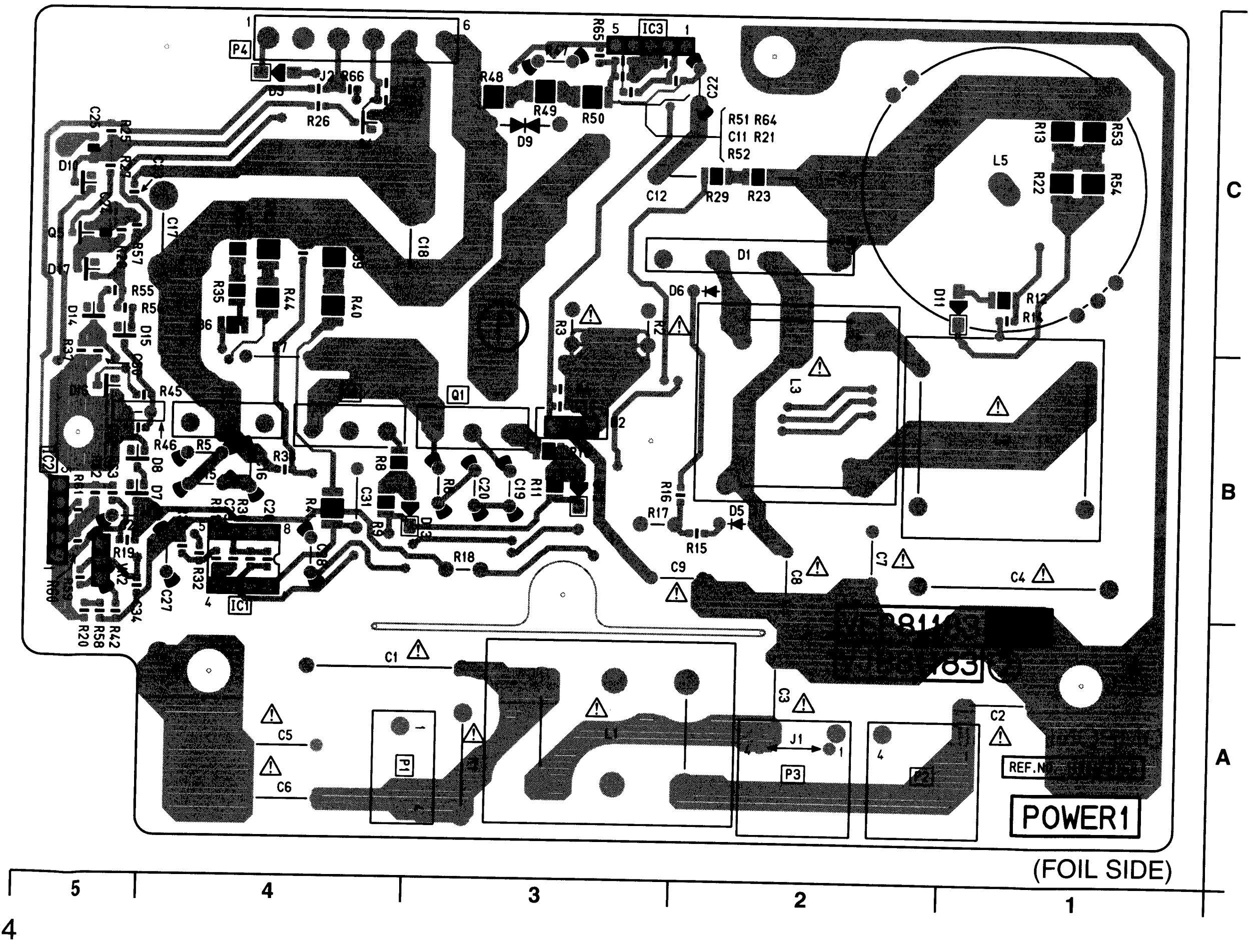
① ⚠ 警告　⚠ 印の部品は安全上重要な部品です。交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。

② ▬ 内は充電部です。 AC 100V が加わっておりますので点検、修理のときは感電しないよう充分ご注意ください。

③ 部品交換時には、電源プラグをぬいてから行ってください。

④ 一次側（充電部）の電圧・波形は、一次側アースを基準に測定してください。

⑤ 部品品番は、部品価格表で確認の上交換ください。



(FOIL SIDE)

POWER 2 P.C. BOARD (VEP81184A)

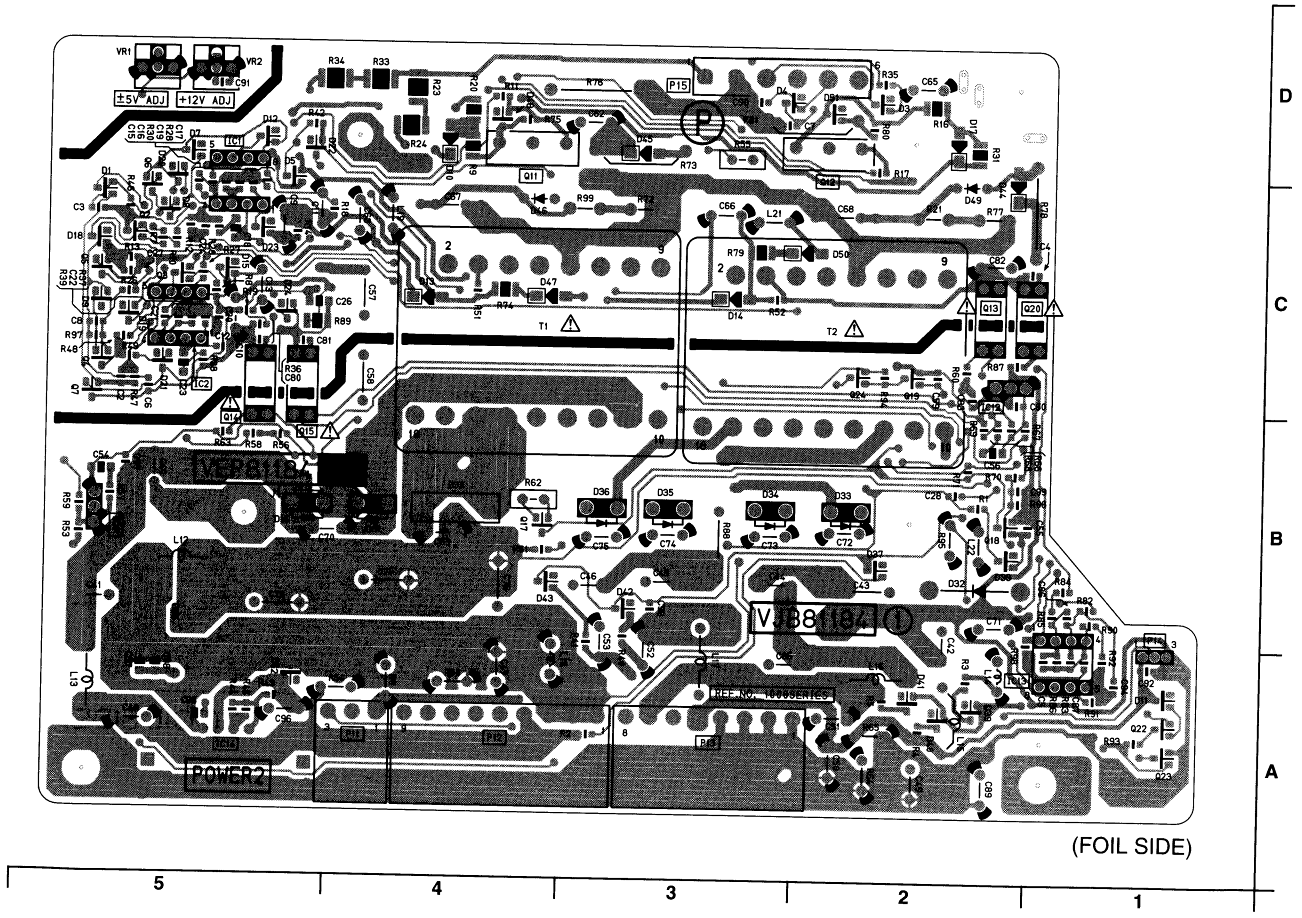
REF	LOC	REF	LOC
Q11	D4	P11	A4
Q12	D2	P12	A4
Q13	C2	P13	A3
Q14	C5	P14	A1
Q15	C5	P15	D3
Q20	C2		
IC1	C5		
IC2	C5		
IC11	B6		
IC12	C2		
IC13	A1		
IC14	A5		
VR1	D5		
VR2	D5		

(FOIL SIDE)

CAUTION

THE ▬ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.



(FOIL SIDE)

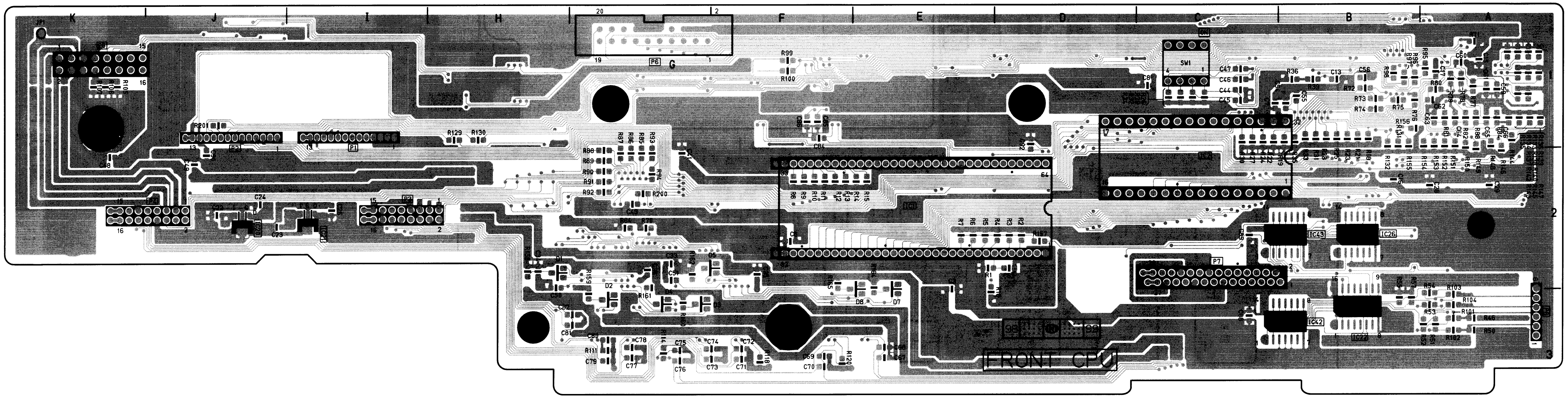
FRONT CPU P.C. BOARD (VEP86285B)

REF	LOC
IC20	J2
IC21	I2
IC22	B3
IC26	B2
IC42	B3
IC43	B2

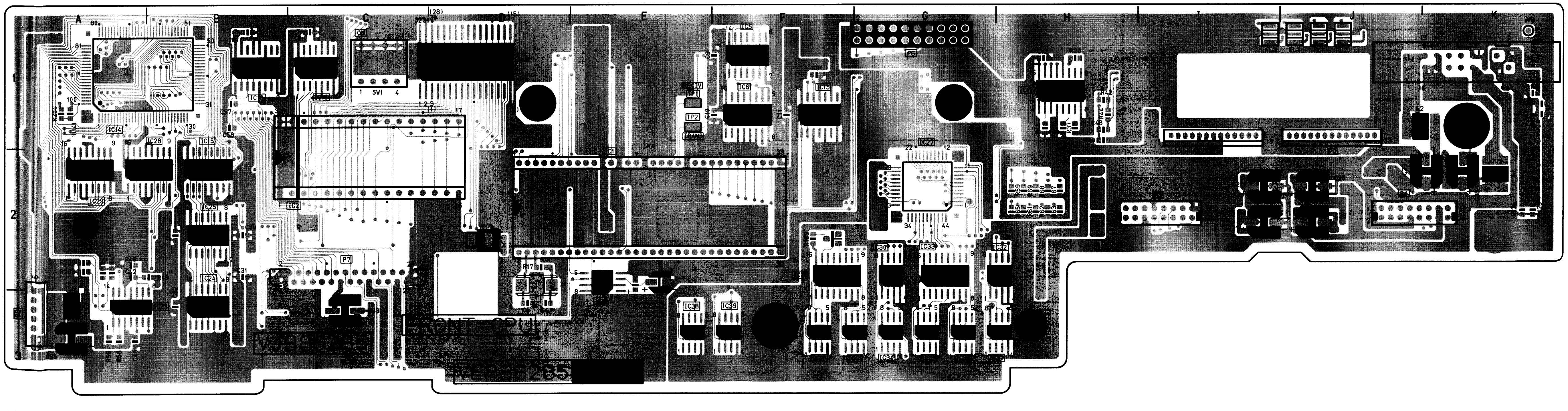
(FOIL SIDE)

REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	D2	IC17	H1	IC32	H2	P1	I1
IC2	B2	IC18	B1	IC33	G2	P2	J1
IC3	D1	IC23	A3	IC34	G3	P3	H2
IC4	E2	IC24	B3	IC35	G3	P4	K2
IC5	F1	IC25	B2	IC36	G3	P5	K1
IC6	F1	IC27	G2	IC37	H3	P6	E1
IC13	F1	IC28	B2	IC38	E3	P7	C2
IC14	A1	IC29	A2	IC39	F3	P8	A3
IC15	B2	IC30	G2	IC40	F3	SW1	C1
IC16	C1	IC31	F2	IC41	G3	X1	D3

(COMPONENT SIDE)


K
J
I
H
G
F
E
D
C
B
A
1
2
3
FRONT CPU

(FOIL SIDE)


A
B
C
D
E
F
G
H
I
J
K
1
2
3
FRONT CPU
VEP88285

(COMPONENT SIDE)

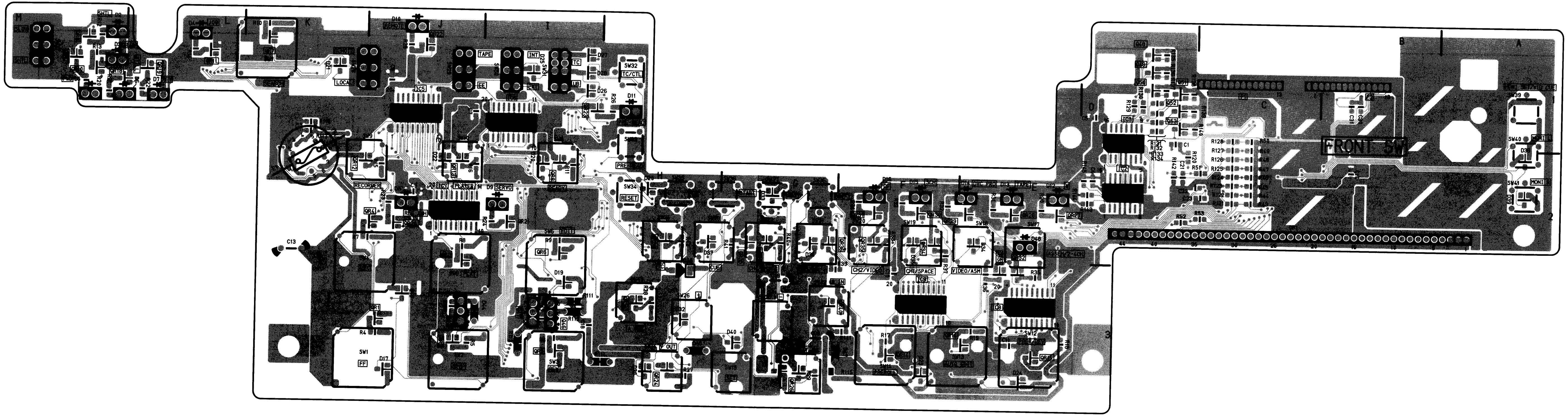
FRONT SW P.C. BOARD (VEP80A49C)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2	D2	Q49	D1	QR4	J2	QR12	K2	QR20	J2	QR28	E2	QR36	G2
IC3	D1	Q50	D1	QR5	J3	QR13	J2	QR21	I2	QR29	E2	QR37	G2
IC5	J1	Q51	D1	QR6	I2	QR14	F3	QR22	J1	QR30	F2	QR38	G2
IC6	I1	Q52	D1	QR7	K1	QR15	E3	QR23	I1	QR31	F2	QR39	H2
IC7	J2	Q53	D1	QR8	I2	QR16	E3	QR24	H3	QR32	E3	QR40	G3
IC8	E3	QR1	J3	QR9	M1	QR17	M1	QR25	H3	QR33	E3		
IC9	F3	QR2	J3	QR10	M1	QR18	M1	QR26	G3	QR34	F2		
Q48	D1	QR3	I3	QR11	L1	QR19	L1	QR27	E2	QR35	F2		

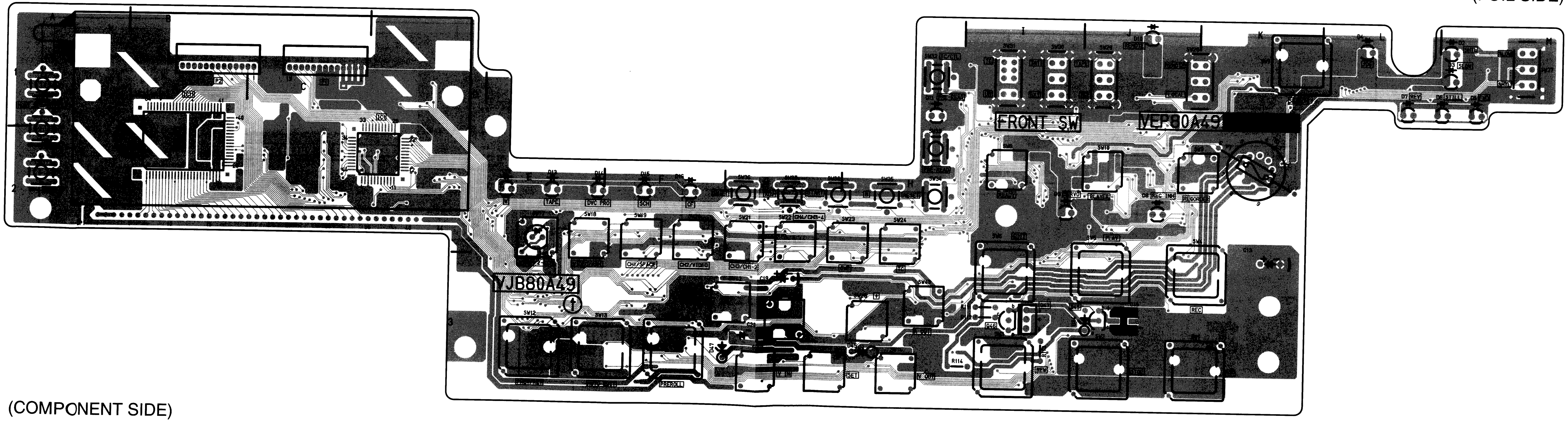
(FOIL SIDE)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	D2	SW2	J3	SW10	J2	SW18	E2	SW26	H3	SW34	H2	SW42	G3
IC11	B2	SW3	I3	SW11	F3	SW19	F2	SW27	M1	SW35	H2	SW43	H3
P1	C1	SW4	J3	SW12	E3	SW20	F2	SW28	J1	SW36	G2		
P2	C1	SW5	J3	SW13	E3	SW21	G2	SW29	J1	SW37	G2		
Q45	J3	SW6	I3	SW14	H3	SW22	G2	SW30	I1	SW38	G2		
Q46	I3	SW7	K1	SW15	G3	SW23	H2	SW31	I1	SW39	A1		
Q47	I3	SW8	I2	SW16	G3	SW24	H2	SW32	H1	SW40	A2		
SW1	J3	SW9	J2	SW17	E2	SW25	G3	SW33	H2	SW41	A2		

(COMPONENT SIDE)

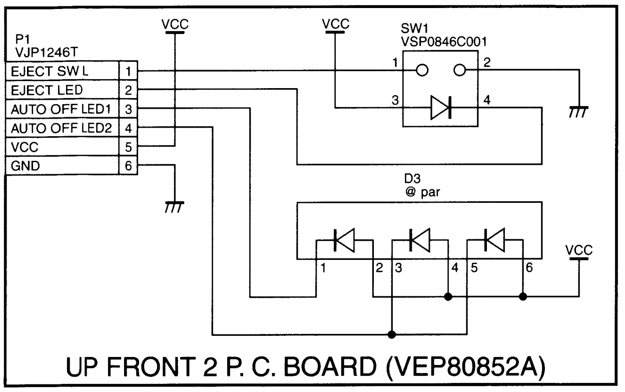


(FOIL SIDE)



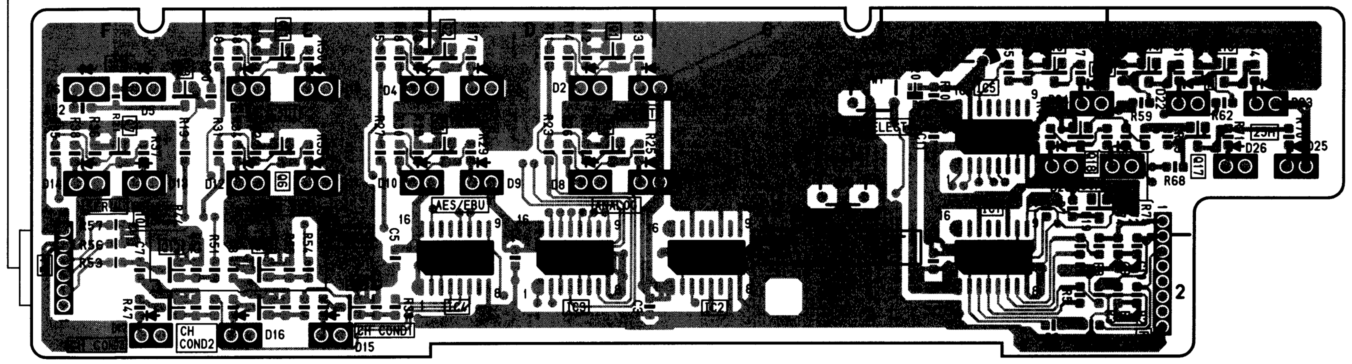
(COMPONENT SIDE)

UP FRONT 1 P.C. BOARD (VEP80A52B)


VCC
VCC
P1
VJP1246T
EJECT SW L 1
EJECT LED 2
AUTO OFF LED1 3
AUTO OFF LED2 4
VCC 5
GND 6
SW1
VSP0846C001
D3
@ par
VCC

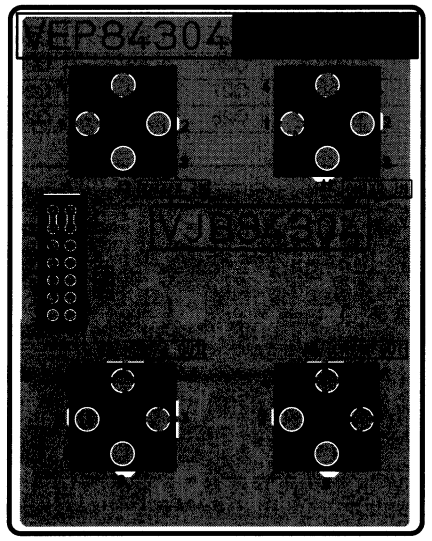
UP FRONT 2 P. C. BOARD (VEP80852A)

REF	LOC	REF	LOC	REF	LOC
IC1	B2	Q3	F1	Q11	E1
IC2	D2	Q4	D1	Q12	F2
IC3	D2	Q5	E1	Q13	F2
IC4	E2	Q6	E1	Q14	B1
IC5	B1	Q7	F1	Q15	A1
IC6	C1	Q8	E2	Q16	B1
Q1	D1	Q9	F2	Q17	A1
Q2	E1	Q10	F2	Q18	B1

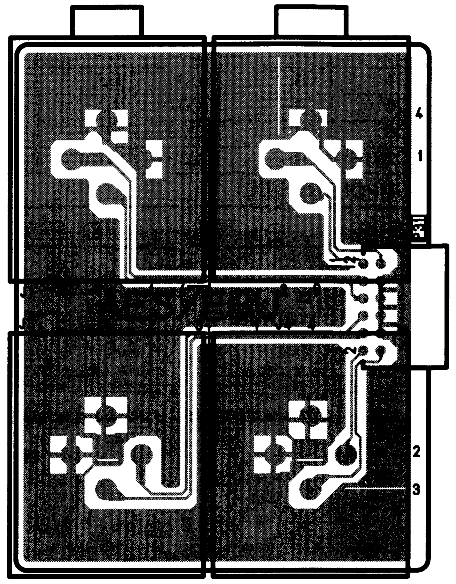

AES/EBU
CH COND2
D16
CH COND1
D15
R68

(FOIL SIDE)

AES/EBU P.C. BOARD (VEP84304B)

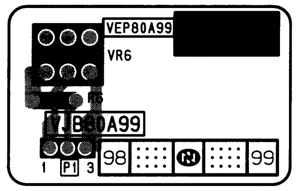

VEP84304
VJB84304

(FOIL SIDE)



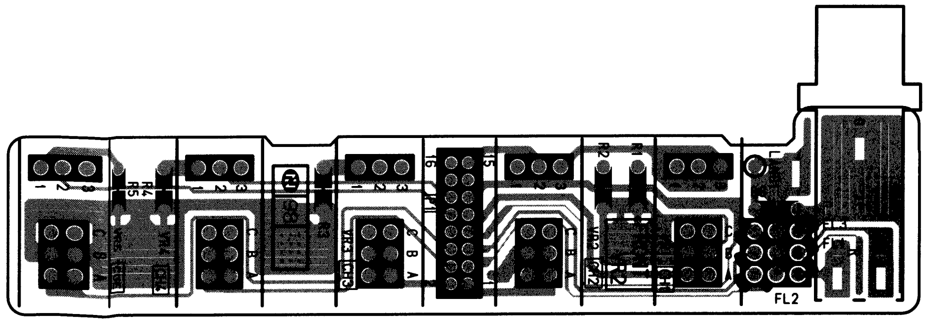
(COMPONENT SIDE)

FRONT VR1 P.C. BOARD (VEP80A99A)


VEP80A99
VR6
VJB80A99
P1
98
99

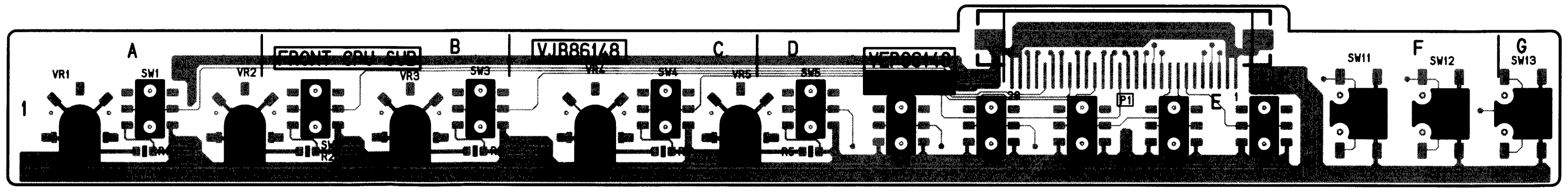
(FOIL SIDE)

FRONT VR2 P.C. BOARD (VEP80B00A)



(FOIL SIDE)

FRONT CPU SUB P.C. BOARD (VEP86148D)

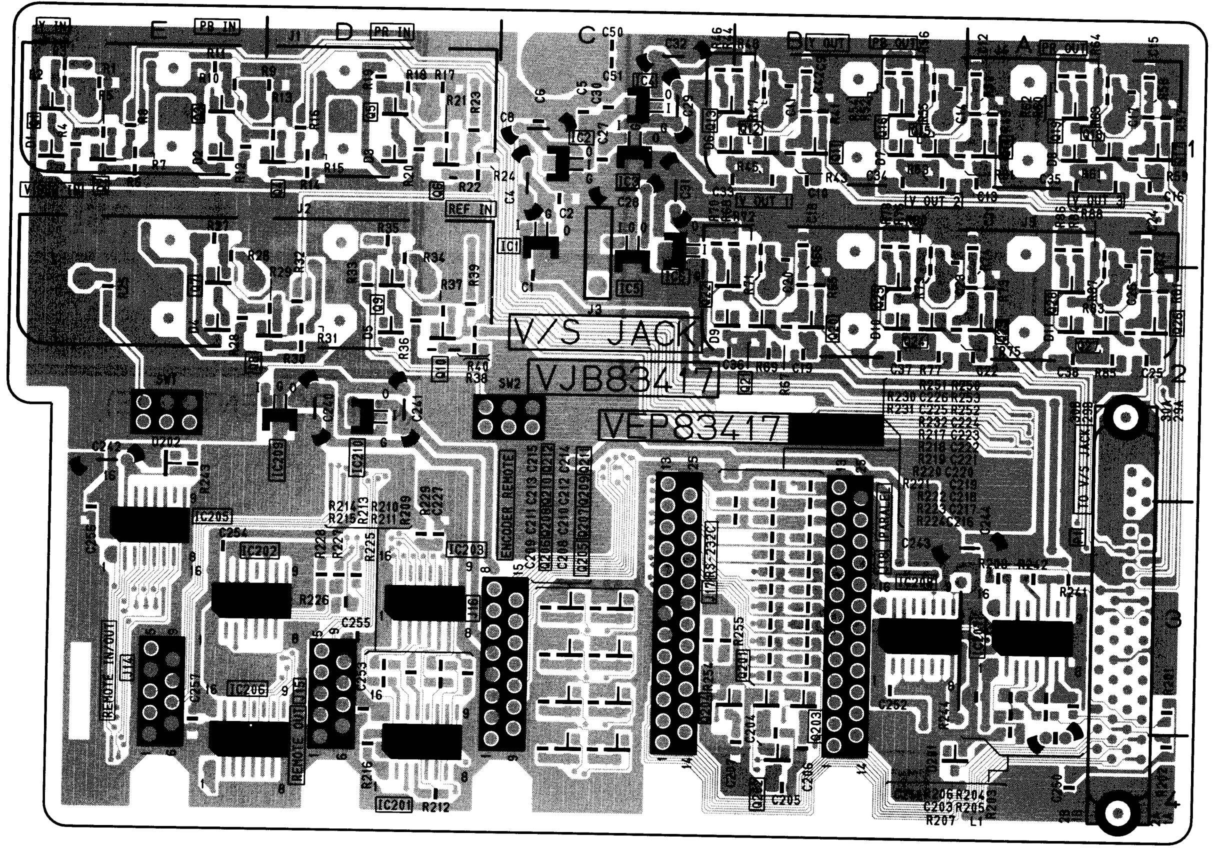

A
B
C
D
E
F
G
FRONT CPU SUB
VJB86148
VR1
SW1
VR2
VR3
SW3
VR4
SW4
VR5
SW5
SW11
SW12
SW13
P1

(COMPONENT SIDE)

V/S JACK P.C. BOARD (VEP83417B)

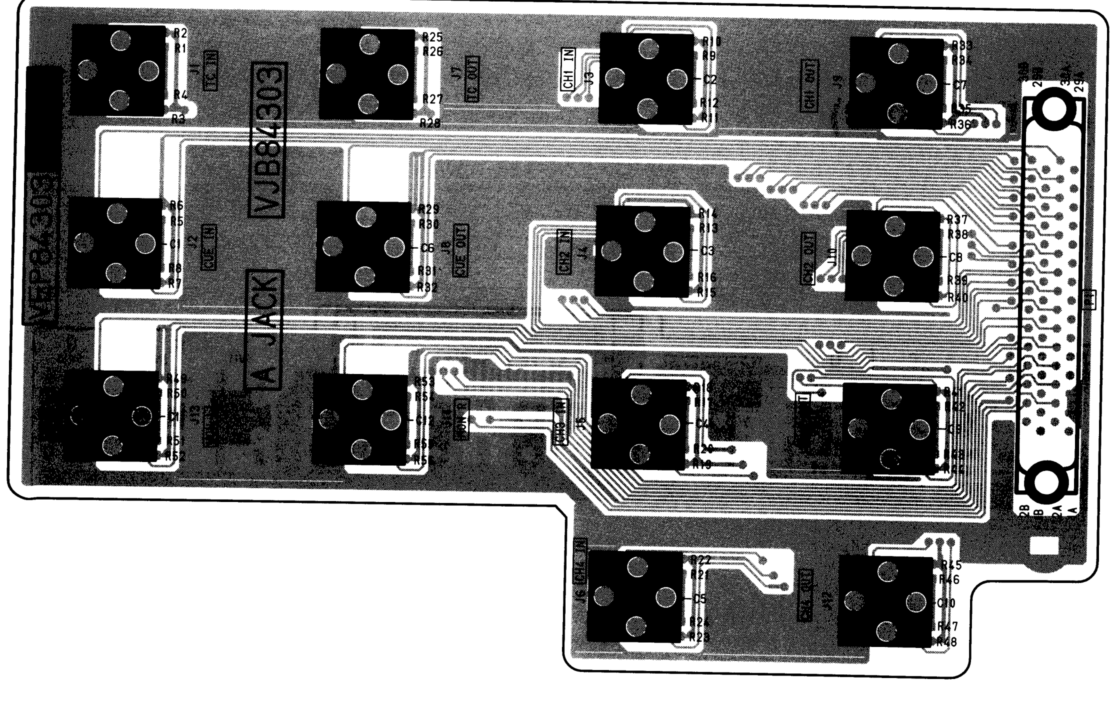
REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	C1	IC202	E3	IC210	D2	Q15	B1	Q22	C2	Q201	B3	Q208	C3
IC2	C1	IC203	D3	Q9	D2	Q16	B1	Q23	A2	Q202	B4	Q209	C3
IC3	C1	IC205	E3	Q10	D2	Q17	A1	Q24	B2	Q203	B4	Q210	C3
IC4	C1	IC206	E3	Q11	B1	Q18	A1	Q25	B2	Q204	B3	Q211	C2
IC5	C1	IC207	A3	Q12	B1	Q19	A1	Q26	A2	Q205	C3	Q212	C2
IC6	C1	IC208	B3	Q13	C1	Q20	B2	Q27	A2	Q206	C3		
IC201	D4	IC209	D2	Q14	A1	Q21	B2	Q28	A2	Q207	C3		

(COMPONENT SIDE)


E
D
C
B
A
1
2
3
4
V/S JACK
VJB83417
VEP83417

(FOIL SIDE)

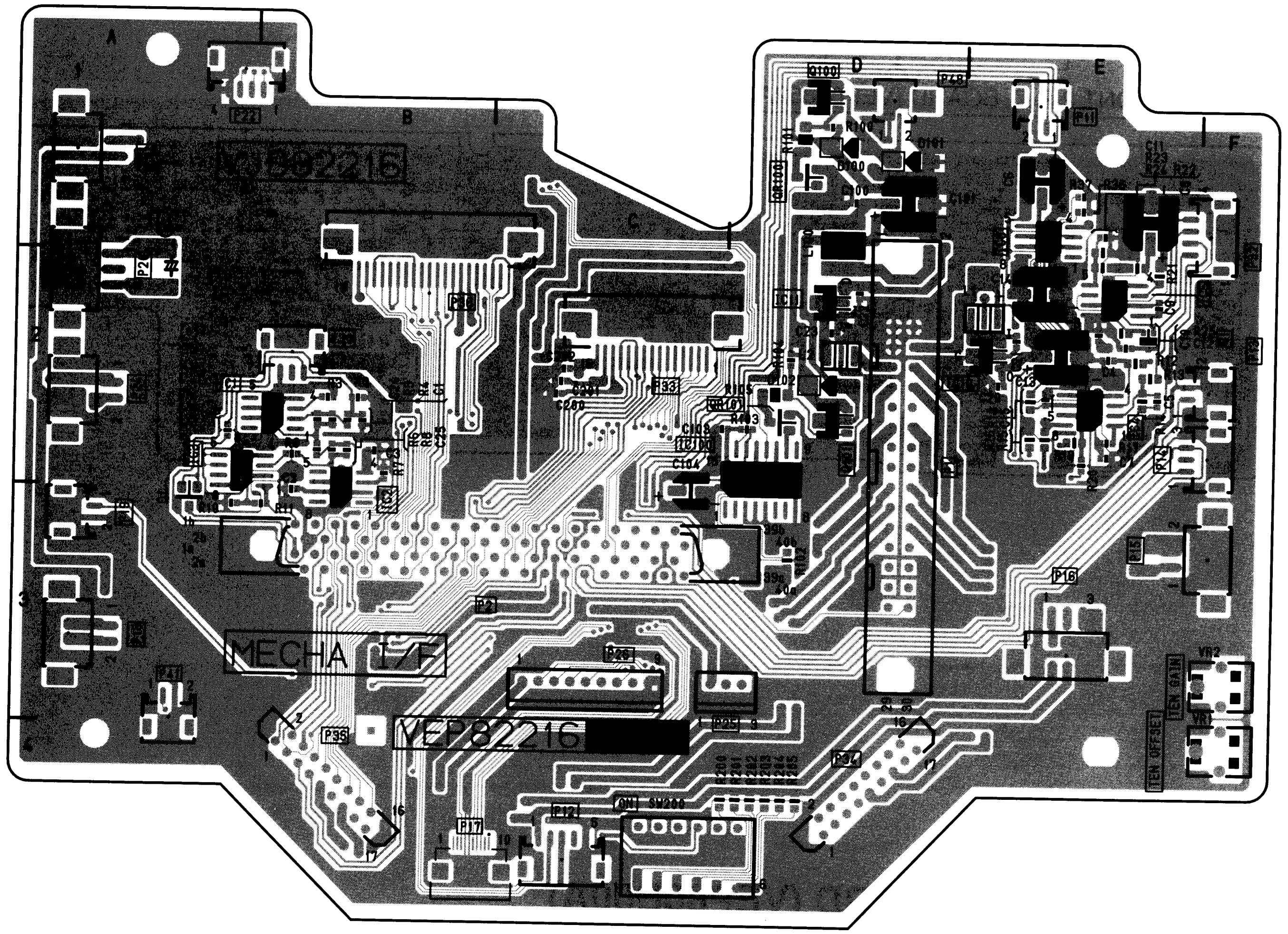
AUDIO JACK P.C. BOARD (VEP84303C)


VJB84303
VEP84303
A JACK

MECHA I/F P.C. BOARD (VEP82216B)

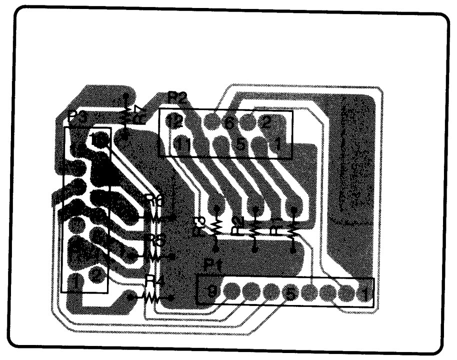
REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	A2	P11	E1	P22	A1	P48	D1
IC2	B3	P12	C4	P24	A2	Q1	F2
IC3	A2	P13	F2	P25	D3	Q100	D1
IC4	E2	P14	E2	P26	C3	Q101	D2
IC5	F2	P15	E3	P30	B2	QR100	D1
IC6	E1	P16	E3	P32	F1	QR101	D2
IC10	E2	P17	B4	P33	C2	VR1	F3
IC11	D2	P18	A3	P34	D4	VR2	F3
IC100	C2	P19	A3	P35	B4		
P1	D2	P20	A2	P36	B2		
P2	B3	P21	A1	P41	A3		

(COMPONENT SIDE)


A
B
C
D
E
F
1
2
3
4
VJB82216
MECHA I/F
VEP82216

(COMPONENT SIDE)

CARRIGE P.C. BOARD (VEP80856A)



(FOIL SIDE)

SECTION 6

EXPLODED VIEWS
&
REPLACEMENT PARTS LISTS

Note:

1. *Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μF), P=μμF.
3. The P.C. Board untils marked with "■" shown below the main assembled parts.
4. The parts marked with Ⓔ on the exploded view show the electric parts.
5. IMPORTANT SAFETY NOTICE
   Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item.
   After the diacontinuation of this assembly in production, it will no longer be available.

<< Abbreviations for part >>

< NAME >		< DESCRIPTIONS >
C. CAPACITOR		: CERAMIC CAPACITOR
C. CAPACITOR	CH	: CERAMIC CHIP CAPACITOR
E. CAPACITOR		: ELECTROLYTIC CAPACITOR
G. CAPACITOR		: GLASS CAPACITOR
M. CAPACITOR		: MICA CAPACITOR
P. CAPACITOR		: PLASTIC FILM CAPACITOR
S. CAPACITOR		: SEMI-CONDUCTOR CAPACITOR
T. CAPACITOR		: TANTALUM CAPACITOR
TRIMMER		: TRIMMER
C.RESISTOR		: CARBON RESISTOR
F.RESISTOR		: FUSE RESISTOR
M.RESISTOR		: METAL OXSIDE RESISTOR
M.RESISTOR	CH	: METAL OXSIDE CHIP RESISTOR
S.RESISTOR		: SOLID RESISTOR
V.RESISTOR		: VARIABLE RESISTOR
W.RESISTOR		: WIRE WOUND RESISTOR
COMBI. TR-R		: TRANSISTOR-RESISTOR COMBINATION PARTS
COMBI. R-R		: RESISTOR-RESISTOR COMBINATION PARTS
COMBI. C-R		: CAPACITOR-RESISTOR COMBINATION PARTS
COMBI. C-R-R		: CAPACITOR-RESISTOR-COIL COMBINATION PARTS
P.C.-BOARD		: PRINTED CIRCUIT BOARD
W/COMPONENT		: WITH COMPONENT

CONTENTS

Mechanical Replacement Parts Rist & Exploded Views PRT-1

Mechanical Chassis Assembly(1) PRT-1

Mechanical Chassis Assembly(2) PRT-3

Sub Chassis Assembly PRT-5

Rear Panel Assembly PRT-7

Cassette Compartment Assembly PRT-9

Chassis Frame Assembly PRT-11

Front Panel Assembly PRT-13

Casing Parts Assembly PRT-15

Packing Parts Assembly PRT-17

Electrical Replacement Parts List PRT-18

SERVICING FIXTURES & TOOLS

Ref. No.	Part No.	Part Name & Descriptio	Pcs	Remarks
1	VFK1145	BACK TENSION METER	1	
2	VFK1149	POST DRIVER	1	
3	VFK71	DIAL TORQUE GAUGE (150G)	1	
4	VFK1191	DIAL TORQUE GAUGE (45G)	1	
5	VFK1152	DIAL TORQUE GAUGE ADAPTOR	1	
6	VFK0357	ECCENTORIC SCREWDRIVER	1	
7	VFL1154	POST HEIGHT FIXTURE	1	
8	VFK1153	MECH. NEUTRAL PLATE	1	
9	VFK0906	OIL	1	
10	VFK1155	REV POSITION TOOL	1	
11	VFK1156	PLAY POSITION TOOL	1	
12	VFK1208	NEUTRAL POSITION TOOL	1	
13	VFK1150	NUT DRIVER (5.5MM)	1	
14	VFK1151	NUT DRIVER (2.5MM)	1	
15	VFK1188	DIAL TENSION GAUGE (30G)	1	
16	VFK0948A	CHECK LIGHT	1	
17	VFK0749	FROIRAL GREASE	1	
18	MOR265	MORLYTONE GREASE	1	
19	VFK1146	PHILIPS DRIVER (FINE)	1	
20	VFK1147	PHILIPS DRIVER (FINE)	1	
21	VFK1148	HEX. DRIVER (1.5)	1	
22	VFK1178	HEX. DRIVER (0.89)	1	
23	VFK1179	HEX. DRIVER (0.71)	1	
24	VFK1190	HEX. WRENCH	1	
25	VFK1209	TORQUE DRIVER	1	
26	VFK1375	POST AXIS DRIVER (1.5MM)	1	
27	VFK1300	A/D BOARD	1	
28	VFM3580KM	ALIGNMENT TAPE (NO.1)	1	FOR NTSC
29	VFM3581KM	ALIGNMENT TAPE (NO.2)	1	FOR NTSC
30	VFM3582KM	ALIGNMENT TAPE (NO.3)	1	FOR NTSC
31	VFM3680KM	ALIGNMENT TAPE (NO.1)	1	FOR PAL
32	VFM3681KM	ALIGNMENT TAPE (NO.2)	1	FOR PAL
33	VFM3682KM	ALIGNMENT TAPE (NO.3)	1	FOR PAL
34	VFM3000EDS	ALIGNMENT TAPE (DV LISTA)	1	
			1	
			1	
37	AJ-CL12MP	CLEANING TAPE	1	
38	VFK1481	LISTA SOFTWARE	1	
39	VFK1186	LISTA CABLE	1	
40	VFK1423	TAPE DET. SENSOR CASSETTE	1	
41	VZZ0095	CLEANING CROSS	1	
42	VFK1248A	FLASH ROM VERSION UP SOFT	1	
43	VFK1304A	ROM REWRITER	1	
			1	
			1	
			1	
47	VFK0369	TWEEZERS	1	
48	VFK0371	RADIO PRIER	1	
49	VFK0372	CUTTER PRIER	1	
50	VFK0338	TRIMMER ADJUSTMENT DRIVER	1	
51	VFK0337	PHILIPS DRIVER	1	

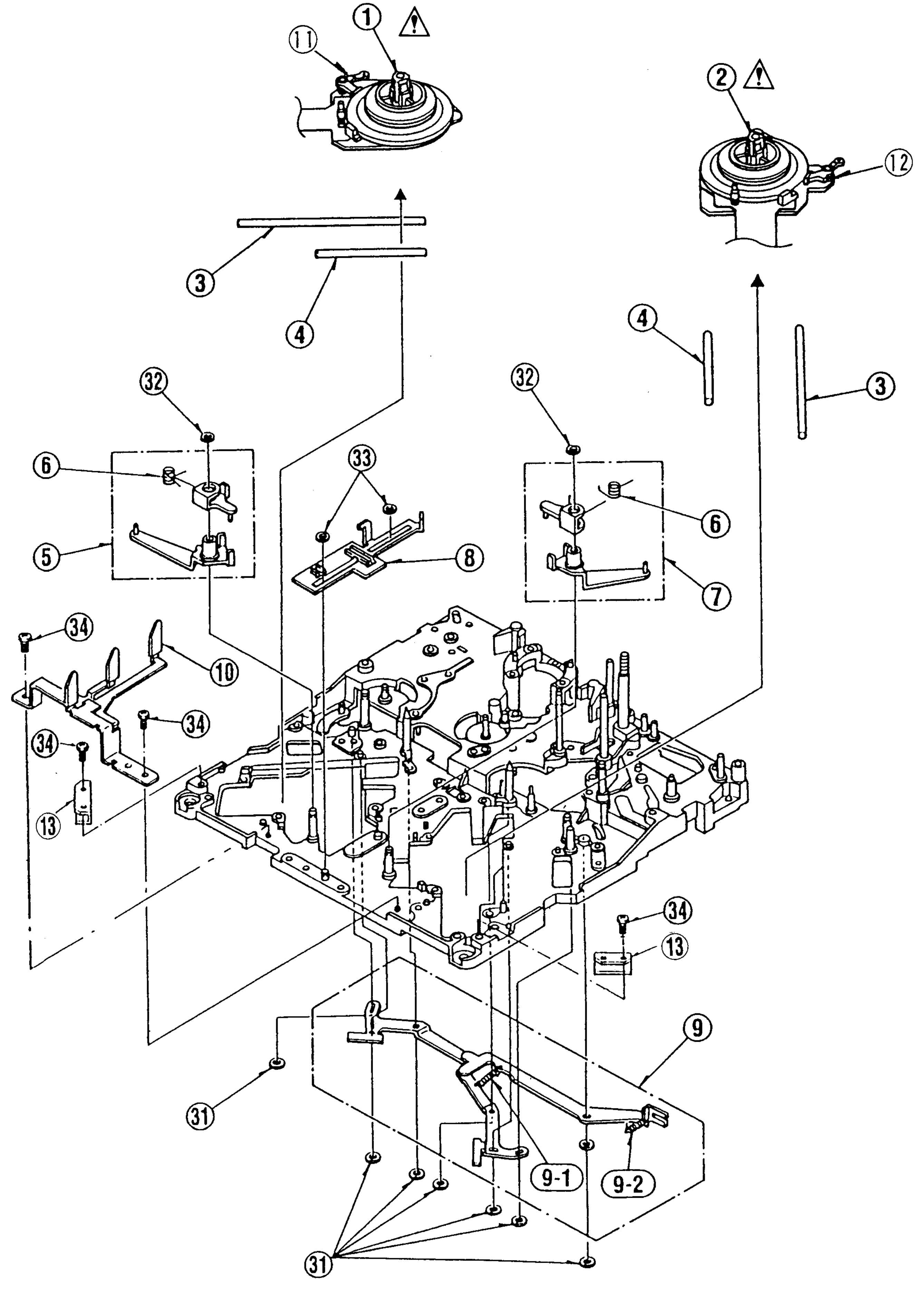
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

MECHANICAL CHASSIS ASSEMBLY (1)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VEM0686	S REEL MOTOR A ASS'Y	1	(M)
⚠ 2	VEM0687	T REEL MOTOR A ASS'Y	1	(M)
3	VMS5923	REEL OUTER RAIL	2	
4	VMS5924	REEL INNER RAIL	2	
5	VXL2589	S BASE DRIVE ARM ASS'Y	1	
6	VMB2944	CHARGE SPRING	2	
7	VXL2590	T BASE DRIVE ARM ASS'Y	1	
8	VXA5625	SLIDE ROD ASS'Y	1	
9	VXL2597	M STOPPER DRIVE ARM ASS'Y	1	
9-1	VMB2955	M STOPPER SPRING (1)	1	
9-2	VMB3017	M STOPPER SPRING (2)	1	
10	VXA6174	L-M RELEASE ANGLE ASS'Y	1	
11	VXZ0439	S BRAKE ARM ASS'Y	1	
12	VXZ0440	T BRAKE ARM ASS'Y	1	
31	VMX1061	WASHER	7	
32	VMX1079	CUT WASHER	2	
33	VMX1394	CUT WASHER	2	
34	XQN2+CF3	SCREW	4	

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

MECHANICAL CHASSIS ASSEMBLY (1)



⑪
① ⚠
② ⚠
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⑥
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⑬
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⑬
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㉛
9-1
9-2
㉛

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

MECHANICAL CHASSIS ASSEMBLY (2)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA5554	A/C HEAD BASE (1) ASS'Y	1	
2	VED0419	A/C HEAD	1	(M)
3	VXA6067	A/C HEAD BASE (2) ASS'Y	1	
4	VMB2935	A/C HEAD HIGHT SPRING	1	
5	VEG1503	CYLINDER UNIT	1	(M)
6	VXA5715	EMARGENCY SHIFT HOLDER	1	
⚠ 7	VEM0645	LOADING MOTOR (1)A ASS'Y	1	(M)
8	VSJ0227	PINCH SOLENOID	1	(M)
9	VXA5584	MOTOR ANGLE ASS'Y	1	
10	VES0814	MODE SW ASS'Y	1	(M)
11	VMA9376	PINCH SOLENOID BASE	1	
12	VXL2924	CLEANING ARM A ASS'Y	1	(M)
12-1	VMX2150	CLEANER ROLLER HOLDER	1	
12-2	VXP1963	CLEANER ROLLER ASS'Y	1	
12-3	VMB3114	CLEANER ROLLER SPRING	1	
13	VXL2870	T2 ARM ASS'Y	1	
13-1	VMB3304	T2 ARM SPRING	1	
14	VXL2832	TENSION ARM A ASS'Y	1	(M)
14-1	VXP1761	TENSION ROLLER	1	
14-2	VMB3220	TENSION LEG SPRING	1	
14-3	VXA6173	MAGNET HOLDER ASS'Y	1	
15	VXA5791	TENSION LEG SPRING HOOK	1	
16	VXL2812	S1 LOADING ARM ASS'Y	1	(M)
17	VMD2533	LOADING RAIL	1	
18	VXA6378	T1 BOAT ASS'Y	1	(M)
19	VHD0561	HEX SCREW	1	
20	VXA6052	S POST BASE A ASS'Y	1	(M)
21	VXP1683	T4 CONNECTION GEAR ASS'Y	1	
22	VXL2772	T4 ARM ASS'Y	1	
23	VMB2950	T4 THRUST SPRING	1	
24	VXL2899	T LOADING ARM N ASS'Y	1	
25	VMS5906	T3 UPPER FRANGE	1	
26	VMS5905	T3 SLEEVE	1	
27	VMS5904	T3 LOWER FRANGE	1	
28	VMB2929	T3 SPRING	1	
29	VMB2933	PINCH RELEASE SPRING	1	
30	VEK7927	INSULLATION SENSOR	1	
31	VEK7691	LED HOLDER P.C.BOARD	1	
32	VMA9411	PINCH SOLENOID ANGLE	1	
33	VXA5820	TENSION SENSOR ASS'Y	1	
34	VXL2835	PINCH ARM ASS'Y	1	(M)
35	VXL2588	PINCH GUIDE ARM ASS'Y	1	
36	VXA5570	T SECTOR GEAR ASS'Y	1	
37	VXL2838	TENSION LEG. GUIDE ARM	1	
38	VXA5567	S SECTOR GEAR ASS'Y	1	
39	VXA5564	T4 SECTOR GEAR ASS'Y	1	
40	VXA5563	MAIN ROD ASS'Y	1	
41	VXA5627	THRUST SHAFT HOLDER ASS'Y	1	
42	VDG1166	MOTOR WARM GEAR	1	
43	VDG1268	MOTOR EMARGENCY GEAR A(A)	1	
44	VDG1267	MOTOR EMARGENCY GEAR B(A)	1	
45	VXL2889	MAIN CAM ARM ASS'Y	1	
46	VDG1168	MAIN CAM GEAR	1	(M)
47	VMB2937	A/C HEAD ADJUST SPRING	1	
48	VXL2600	EJECT ARM ASS'Y	1	
49	VMD3475	T1 GUIDE ASS'Y	1	
50	VMB2934	SPRING	1	
51	VMB3051	CLEANER RETURN SPRING	1	
52	VXA6077	CLEANER BASE 1 ASS'Y	1	
53	VXA6078	CLEANER SOLENOID ASS'Y	1	
53-1	VSJ0226	CLEANER SOLENOID	1	(M)
53-2	VMA9877	CLEANER SOLENOID BASE	1	
54	VMM0429	CLEANER INTERLOCK	1	
55	VXQ0556	THRUST SCREW ASS'Y	1	(M)
56	VMT0871	SILENCER A	1	
57	VMT0872	SILENCER B	1	
61	VHD0356	SCREW	1	
62	XQN2+A3	SCREW	1	
64	XQN2+A35FZ	SCREW	3	
65	XQN2+AM2	SCREW	3	
66	XQN2+AM4	SCREW	1	
67	XQN2+CF3	SCREW	12	
68	XQN2+CF4	SCREW	3	
69	XUC12FP	E-RING	2	
70	XVE2B4FZ	HEX SCREW	3	
71	XVE2B6FP	HEX SCREW	1	
72	XVE2B12FP	HEX SCREW	1	
73	VXQ0439	SCREW	3	
74	VMX0967	CUT WASHER	3	
75	VMX1061	WASHER	3	
76	VMX1079	CUT WASHER	1	
77	XWA2B	WASHER	4	
78	XWE2	WASHER	2	
79	XWE16VW	WASHER	1	
80	XXE2A6FP	HEX SCREW	1	
81	XWG2	WASHER	3	
82	XWGV15Z32G	WASHER	2	
83	VHD0045	NYLON NUT	1	
84	VHN0312	NUT	2	
85	XQN2+AQ3.5FZ	SCREW	1	
86	XQN2+AJ5	SCREW	1	
87	XQN2+A1.5	SCREW	4	
88	XQN2+A4	SCREW	1	
89	VMX1394	CUT WASHER	1	
*	VXY1418Z1	MECHANISM	1	(M)

Components identified with the mark ⚠ have the special characteristics for safety.
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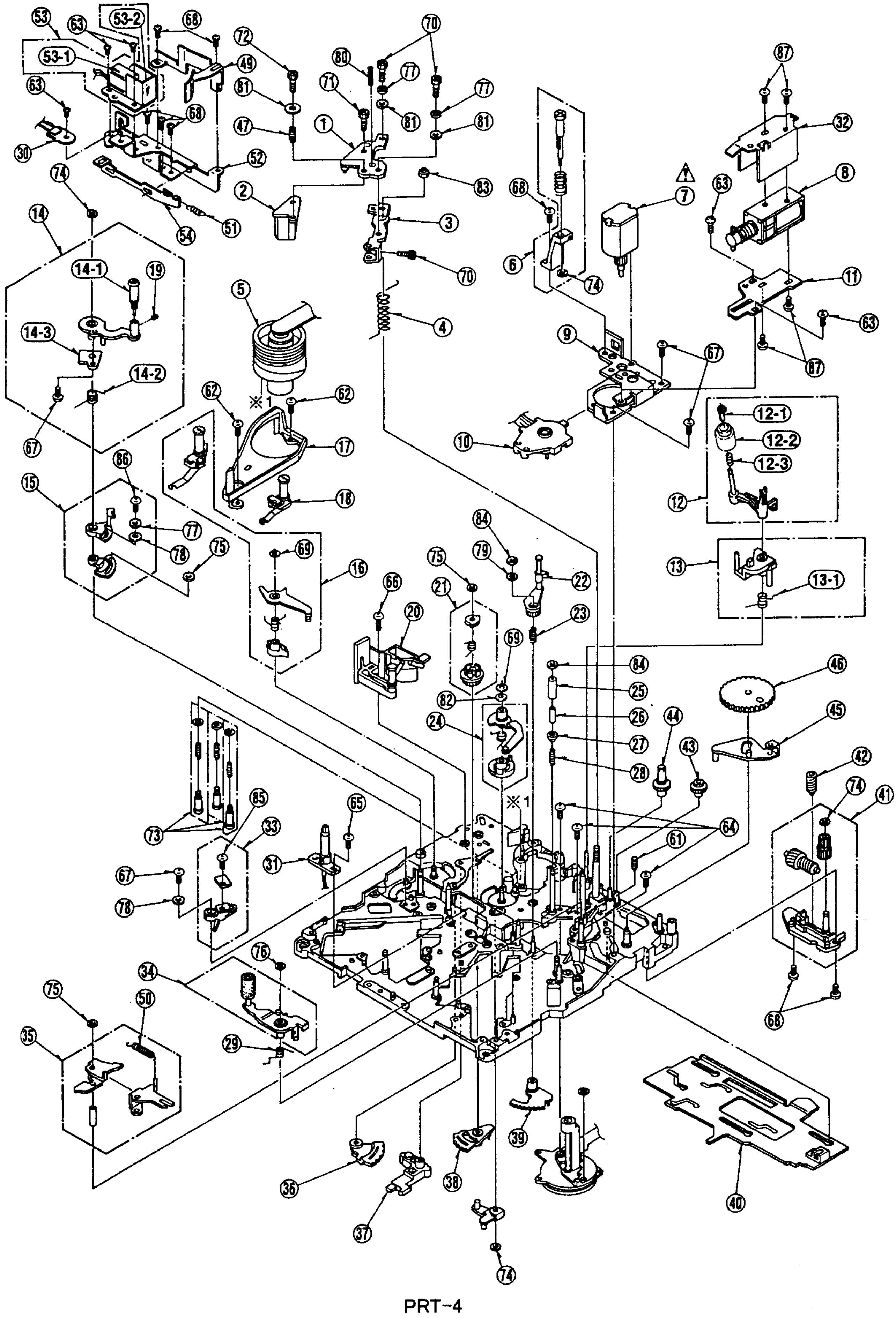
MECHANICAL CHASSIS ASSEMBLY (2)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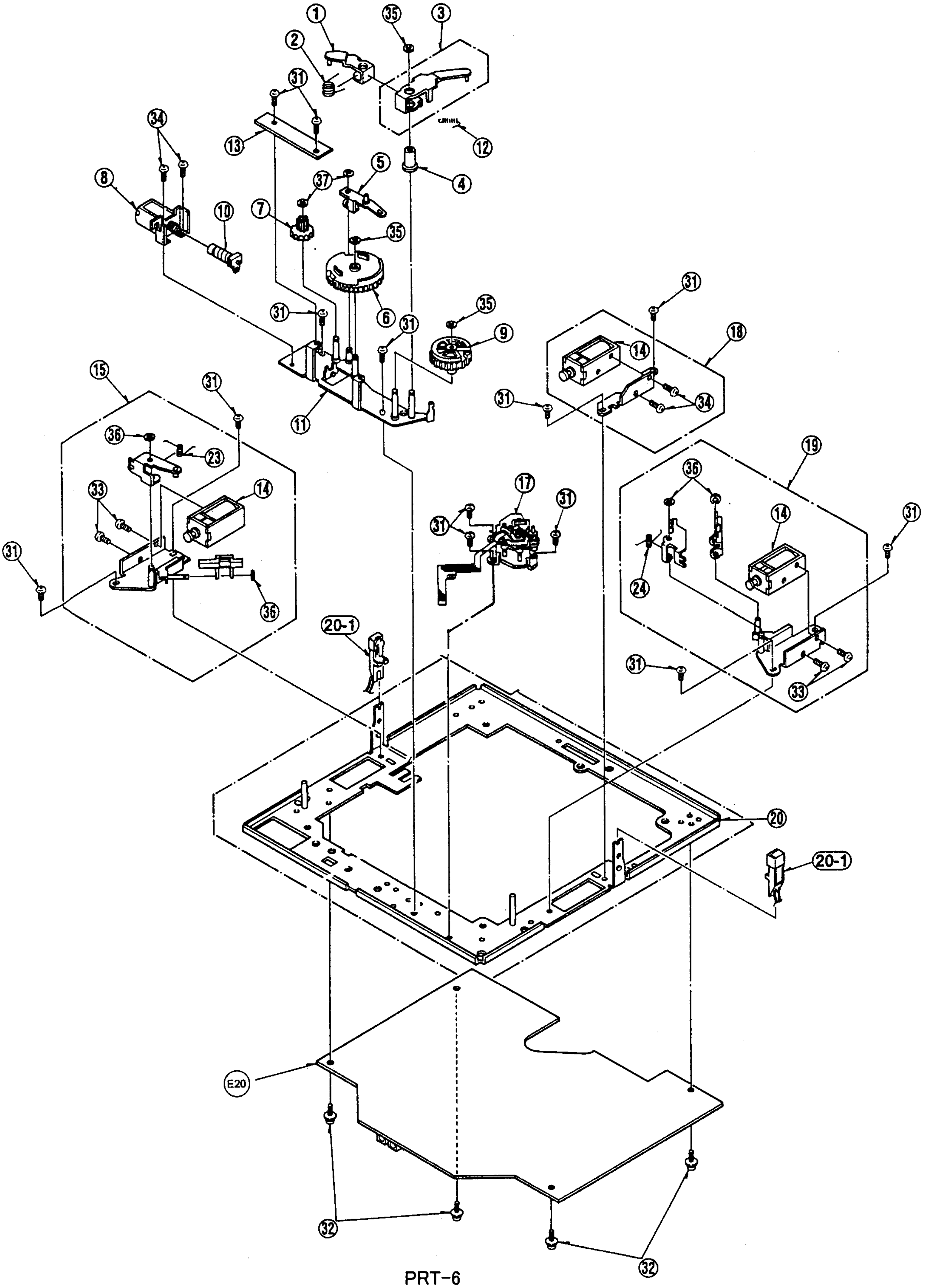
SUB CHASSIS ASSEMBLY

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXL2656	MIC DRIVE ARM (A) ASS'Y	1	
2	VMB3018	MIC DRIVE SPRING	1	
3	VXL2657	MIC DRIVE ARM (B) ASS'Y	1	
4	VDB1429	MIC DRIVE ARM BOSS	1	
5	VXL2613	REEL DRIVE ARM ASS'Y	1	
6	VDG1192	REEL DRIVE CAM GEAR	1	
7	VDG1193	REEL DRIVE WORM WHEEL	1	
8	VEM0585	REEL DRIVE MOTOR ASS'Y	1	(M)
9	VDG1211	MIC GENEVA GEAR	1	
10	VXP1698	REEL DRIVE WORM ASS'Y	1	
11	VXA5628	MOTOR BASE U.	1	
12	VMB3019	MIC DRIVE RETURN SPRING	1	
13	VEK7726	REEL SENSOR P.C.BOARD	1	
14	VSJ0216	BRAKE SOLENOID	3	(M)
15	VXA5575	S-BRAKE SOLENOID BASE ASS	1	
17	VXA6199	DISTINCTION SW ASS'Y	1	(M)
18	VXA5579	M STOPPER SOLENOID ASS'Y	1	
19	VXA5887	T-BRAKE SOLENOID BASE	1	
20	VXK1336	SUB CHASSIS	1	
21	VEK7692	SENSOR HOLDER ASS'Y	1	
22	VMS6193	T BRAKE RELEASE ARM SHAFT	1	
23	VMB2957	S BRAKE SPRING	1	
24	VMB2987	T BRAKE SPRING	1	
31	XQN2+CF3	SCREW	13	
32	XYN26+K6	SCREW	4	
33	XQN2+A1.5	SCREW	2	
34	XQN2+A2	SCREW	2	
35	VMX1079	CUT WASHER	5	
36	VMX0967	CUT WASHER	4	
37	VMX1548	CUT WASHER	2	
38	XQN2+A1.5	SCREW	4	
E20	VEP82216B	MECH I/F P.C.BOARD	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks

SUB CHASSIS ASSEMBLY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Components identified with the mark ⚠ have the special characteristics for safety.
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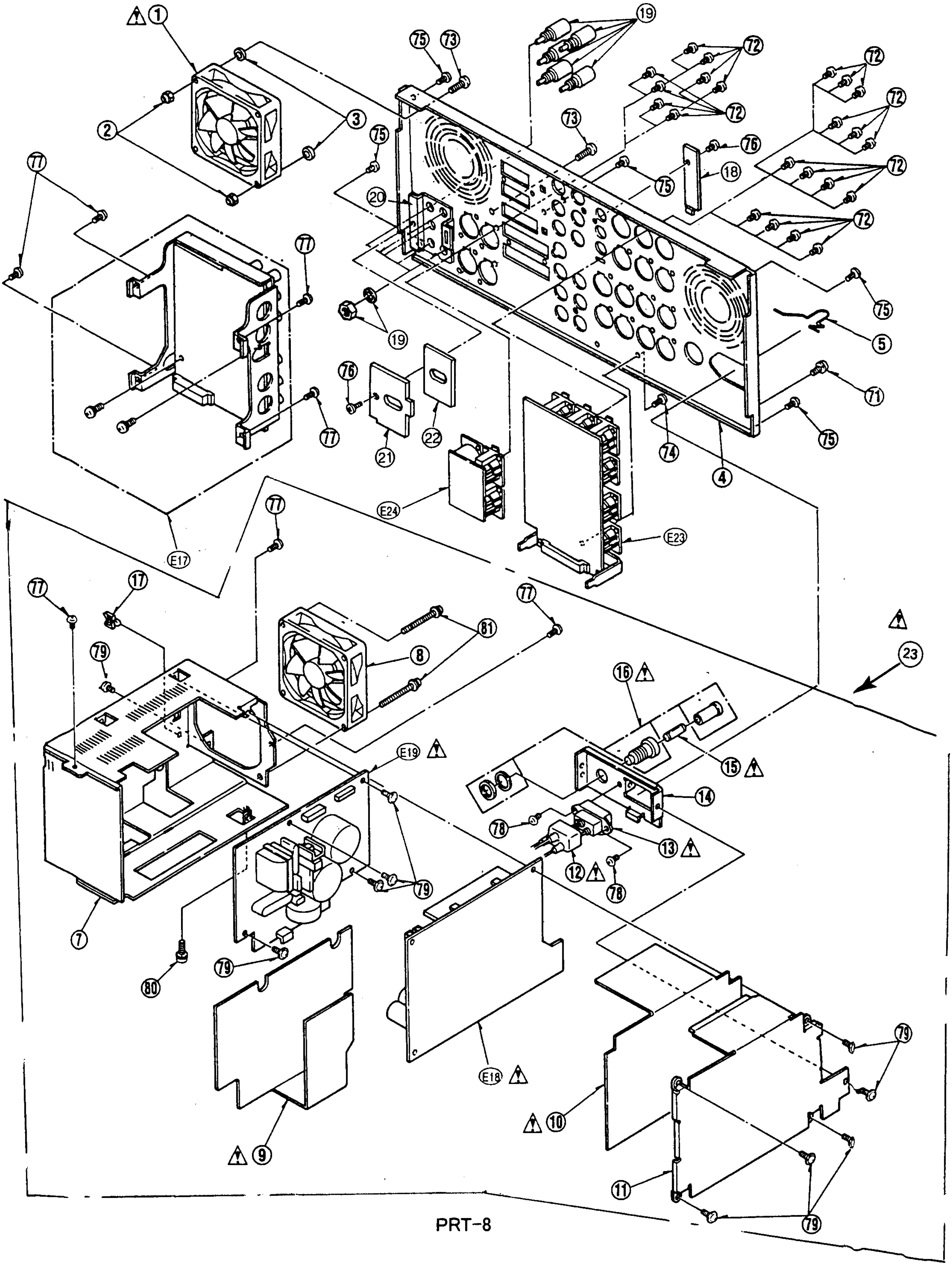
REAR PANEL ASSEMBLY

Ref. No.	Part No.	Part Name & Descriptior	Pcs	Remarks
1	VRF0208	FAN MOTOR	1	
2	VHN0063	NYLON NUT	2	
3	VMX0835	SPACER	2	
4	VJH1099	JACK PANEL	1	FOR AJ-D940P
4	VJH1100	JACK PANEL	1	FOR AJ-D940E
5	VML2903	AC CORD HOOK	1	
7	VSC4387	POWER SUPPLY CASE A	1	
8	VRF0190	FAN MOTOR	1	
9	VMZ2502	SHIELD SHEET A	1	
10	VMZ2503	SHIELD SHEET B	1	
11	VSC4388	POWER SUPPLY CASE B	1	
⚠ 12	VMZ1252	AC INLET COVER	1	
⚠ 13	VJP0083	AC INLET	1	
14	VMP4889	AC INLET BRACKET	1	
⚠ 15	XBA1C50NB5	FUSE	1	FOR AJ-D940P
⚠ 15	XBA2C40TH15	FUSE	1	FOR AJ-D940E
⚠ 16	VJF1005	FUSE HOLDER	1	
17	VJF0285	WIRE LOCKING SADDLE	1	
19	VJS4132	CONNECTOR (FEMALE)	1	
20	VMP5743	SR HOLD BASE	1	
21	VMP5744	SR HOLD ANGLE	1	
22	VMT0917	SH HOLD CUSHION	1	
23	VEK8727	POWER ASS'Y	1	
71	VHD0426	SCREW	1	
72	XSN26+6FZ	SCREW	22	
73	XSN4+35FC	SCREW	2	
74	XTN26+6FFZ	SCREW	1	
75	XTV3+6F	SCREW	5	
76	XTV3+6FFZ	SCREW	2	
77	XTV3+6FFR	SCREW	7	
78	XSB3+6FZ	SCREW	2	
79	XTW3+8LR	SCREW	10	
80	XYE4+EF8	SCREW	1	
81	XYNV4+K35FCS	SCREW	2	
E16	VEP83417B	V/S JACK P.C.BOARD	1	
E17	VEP81183A	POWER 1 P.C.BOARD	1	
E18	VEP81184C	POWER 2 P.C.BOARD	1	
E22	VEP84303D	AUDIO JACK P.C.BOARD	1	
E23	VEP84304B	AES/EBU P.C.BOARD	1	

Ref. No.	Part No.	Part Name & Descriptior	Pcs	Remarks

Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

REAR PANEL ASSEMBLY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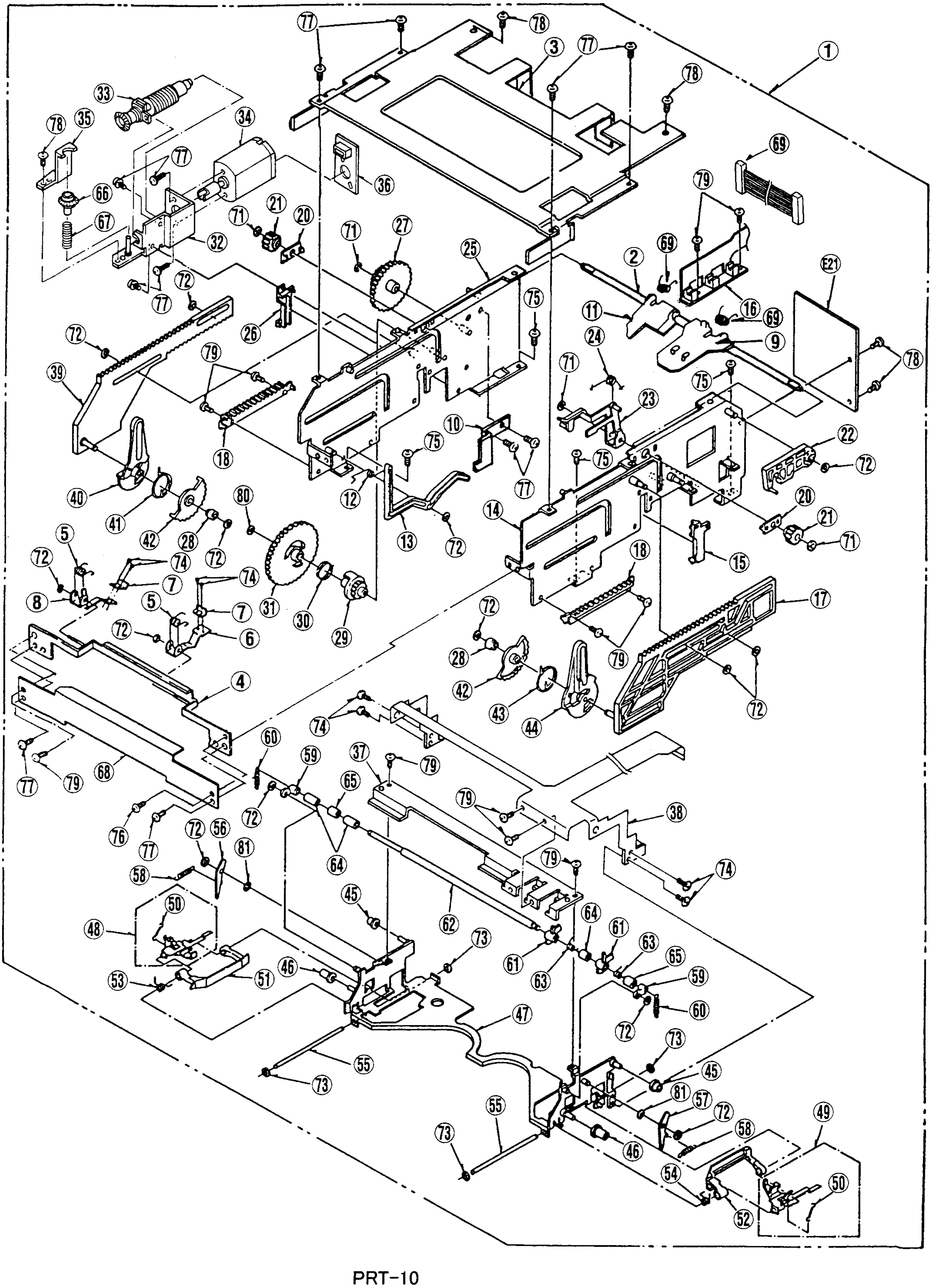
CASSETTE COMPARTMENT ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA6070	CASSETTE COMPARTMENT	1	(M)
2	VMS5865	MAIN SHAFT	1	
3	VMA9849	TOP PLATE	1	
4	VXA5761	FRONT GUIDE 1 ASS'Y	1	
5	VMB3075	M GUIDE SPRING	2	
6	VML3191	M GUIDE RIGHT LEVER	1	
7	VML3192	M FRONT GUIDE	2	
8	VML3190	M GUIDE LEFT LEVER	1	
9	VML3397	CASSETTE PROTECT PLATE	1	
10	VMA9760	L OPENER	1	
12	VMB2926	SPRING	1	
13	VML2A50	BLINDER PANEL OPENER	1	
14	VXA6074	R SIDE PLATE 1 ASS'Y	1	
15	VML3282	SUB RAIL (R)	1	
16	VEK7695	SIDE FLEXIBLE	1	
17	VXA5766	MAIN RACK R ASS'Y	1	
18	VDG1156	WIPER RACK	2	
20	VDB1395	MAIN SHAFT ANGLE	2	
21	VDG1155	INTERLOCK GEAR	2	
22	VML3193	OPENER DRIVE ARM	1	
24	VMB2979	SPRING	1	
23	VXL2692	OPENER ANGLE ASS'Y	1	
25	VXA6072	SIDE PLATE L 1 ASS'Y	1	
26	VML3281	SUB RAIL (L)	1	
27	VDG1254	INTERMEDIATE GEAR	1	
28	VDP1643	WIPER ROLLER	2	
29	VDG1237	CLUTCH GEAR	1	
30	VMB2980	CLUTCH SPRING	1	
31	VDG1236	WORM WHEEL	1	
32	VXA5848	MOTOR ANGLE (A) ASS'Y	1	
33	VXP1797	E.E SLOT IN WORM ASS'Y	1	
34	VXA5597	MOTOR ASS'Y	1	(M)
35	VMA9673	EMARGENCY ANGLE	1	
36	VEK7793	MOTOR P.C.BOARD	1	
37	VMA9668	HOLDER PLATE	1	
38	VEK7715	HOLDER FLEXIBLE ASS'Y	1	
39	VXA6075	MAIN RACK (L) ASS'Y	1	
40	VML2A49	WIPER ARM L	1	
41	VMB2925	WIPER SPRING L	1	
42	VDG1163	WIPER GEAR	2	
43	VMB3013	WIPER SPRING R	1	
44	VML2A52	WIPER ARM R	1	
45	VDP1642	CASSETTE GUIDE ROLLER (2)	2	
46	VDP1641	CASSETTE GUIDE ROLLER (1)	2	
47	VXA5757	CASSETTE HOLDER 1 ASS'Y	1	
48	VXA5758	ROD L	1	
49	VXA5759	ROD R	1	
50	VMB3064	SLIDE SPRING	2	
51	VML3249	SIDE GUIDE L	1	
52	VML3250	SIDE GUIDE R	1	
53	VMB3061	SLIDE GUIDE SPRING L	1	
54	VMB3062	SLIDE GUIDE SPRING R	1	
55	VMS6108	KICK OFF ROD SHAFT	2	
56	VML2A54	KICK OFF ARM L	1	
57	VML2A55	KICK OFF ARM R	1	
58	VMB2928	KICK OFF SPRING	2	
59	VML2A53	CASSETTE HOLDER ARM	2	
60	VMB2927	CASSETTE HOLDER SPRING	2	
61	VMX2833	ML DETECTION ROLLER	2	
62	VMS5882	CASSETTE HOLDER SHAFT	1	
63	VMB3253	M-L DETECTION SPRING	2	
64	VMX2559	CASSETTE PRESSURE ROLLER(2)	3	
65	VMX2524	CASSETTE PRESSURE ROLLER(1)	1	
66	VDG1246	EMARGENCY GEAR	1	
67	VMB3109	EMARGENCY SPRING	1	
68	VMZ2661	FRONT GUIDE COVER	1	
71	VMX0653	CUT WASHER	4	
72	VMX0967	CUT WASHER	14	
73	VMX1061	WASHER	4	
74	XQN16+A2	SCREW	8	
75	XQN2+CF3	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
76	XQN2+A2	SCREW	2	
77	XYN2+C3	SCREW	12	
78	XQN2+A3	SCREW	5	
79	LMHD16064	SCREW	10	
80	XWGV2Y4G	WASHER	2	
81	XWGV2Z5G	WASHER	2	
E21	VEP80856A	CARRIGE P.C.BOARD	1	

CASSETTE COMPARTMENT ASSEMBLY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CHASSIS FRAME ASSEMBLY

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VMP4871	LEFT SIDE FRAME	1	
2	VGQ4011	P. C. BOARD GUIDE RAIL A	2	
3	VYQ1258	ROTARY BRACKET L	1	
4	VGQ4012	P. C. BOARD GUIDE RAIL B	2	
5	VMP4877	REAR FRAME	1	
6	VKA0117	PLASTIC FOOT	4	
7	VMP4878	BOTTOM FRAME	1	
8	VMP4881	SW BRACKET	1	
⚠ 9	EST15372T	POWER SWITCH	1	FOR AJ-D940P
⚠ 9	EST15367S	POWER SWITCH	1	FOR AJ-D940E
⚠ 10	VMZ0580	SW COVER	1	
11	VJF0285	WIRE LOCKING SADDLE	4	
12	VJF1259	EDGE HOLDER	1	
13	VMP4876	FRONT FRAME	1	
14	VJF0004	WIRE SADDLE	3	
15	VMP4873	CENTER FRAME	1	
16	VXA5550	MECHANISM FRAME ASS'Y	1	
17	VGF0715	BARRIER (B)	1	
18	VMP4874	CENTER SUB FRAME	1	
19	VGQ1543	EDGE GUARD	1	
20	VMP4875	MIDDLE FRAME	1	
21	VYQ1259	ROTARY BRACKET R	1	
22	VMP4872	SIDE FRAME R	1	
23	VJF0384	CLAMPER	2	
24	VSC4528	PROTECT SHEET	1	
25	VMP5264	FPC SHIELD COVER	1	
29	VMT0609	GASKET	1	
30	VMP5285	BOTTOM FRAME ANGLE	4	
31	VGF0714	BARRIER (A)	1	
71	VHD5013	SCREW	2	
72	XTN3+6F	SCREW	2	
73	XTV3+6F	SCREW	27	
74	XTV3+6FFR	SCREW	9	
75	XYN3+C6	SCREW	6	
76	XYNV3+K12S	SCREW	4	
E1	VEP80A96A	MOTHER P. C. BOARD	1	
E2	VEP82221A	F1 SERVO P. C. BOARD	1	
E3	VEP86284B	F2 SYSCON P. C. BOARD	1	
E4	VEP83444A	F3 NON TRK P. C. BOARD	1	
E5	VEP83452A	F4 SDI MAIN P. C. BOARD	1	
E6	VEP83453A	F5 PB P. C. BOARD	1	
E7	VEP83454B	F6 VIDEO OUT P. C. BOARD	1	
E8	VEP84326C	F7 A PROCESS P. C. BOARD	1	
E9	VEP84301C	F8 A AD/DA P. C. BOARD	1	
E10	VEP84302B	H1 CUE P. C. BOARD	1	
E11-13	VEP85177A	H2/H3/H4 EQ P. C. BOARD	3	
E14	VEP85174A	HEAD BUFFER P. C. BOARD	1	
E15	VEP80991A	AC HEAD IF P. C. BOARD	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks

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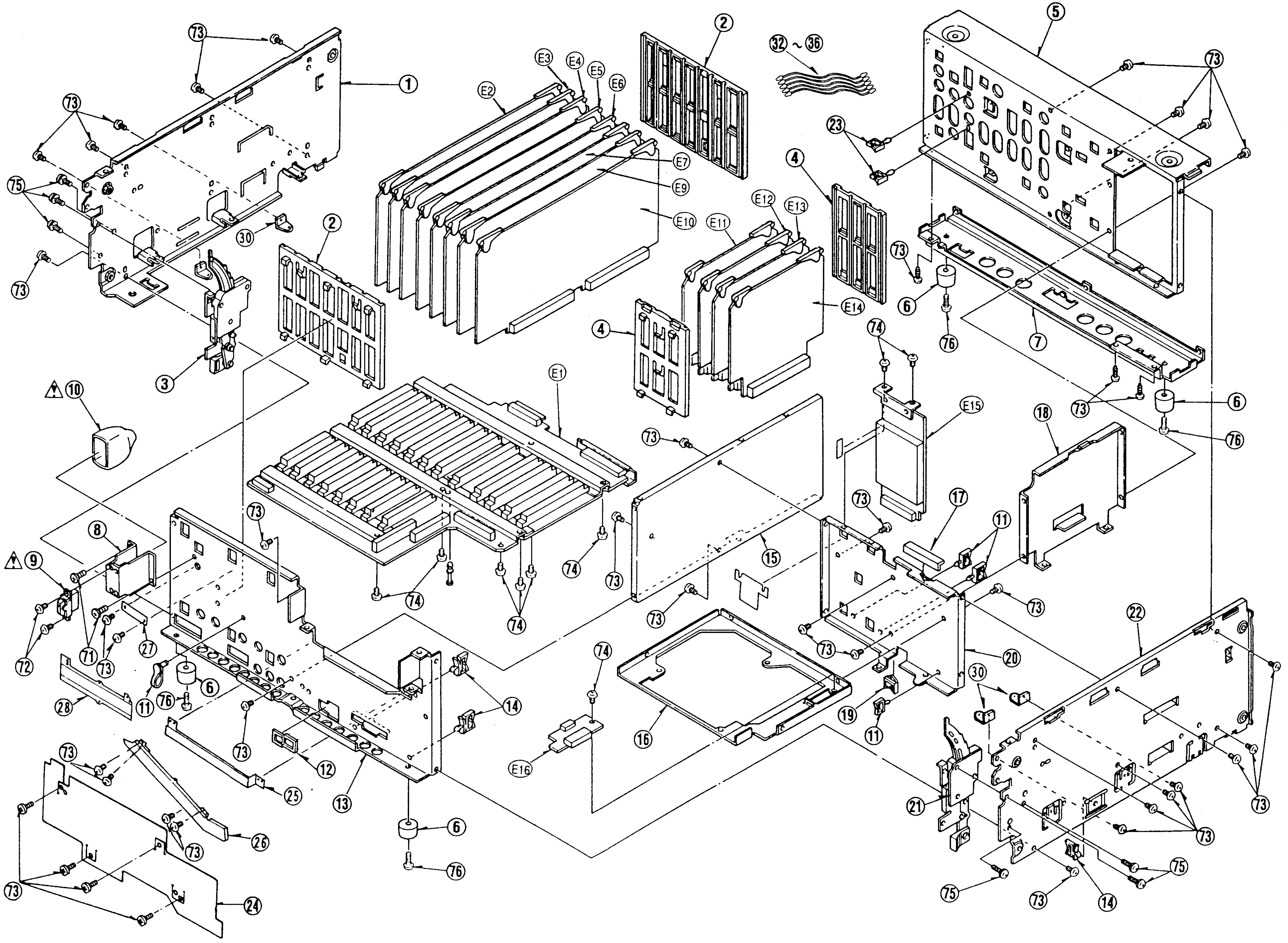
CHASSIS FRAME ASSEMBLY



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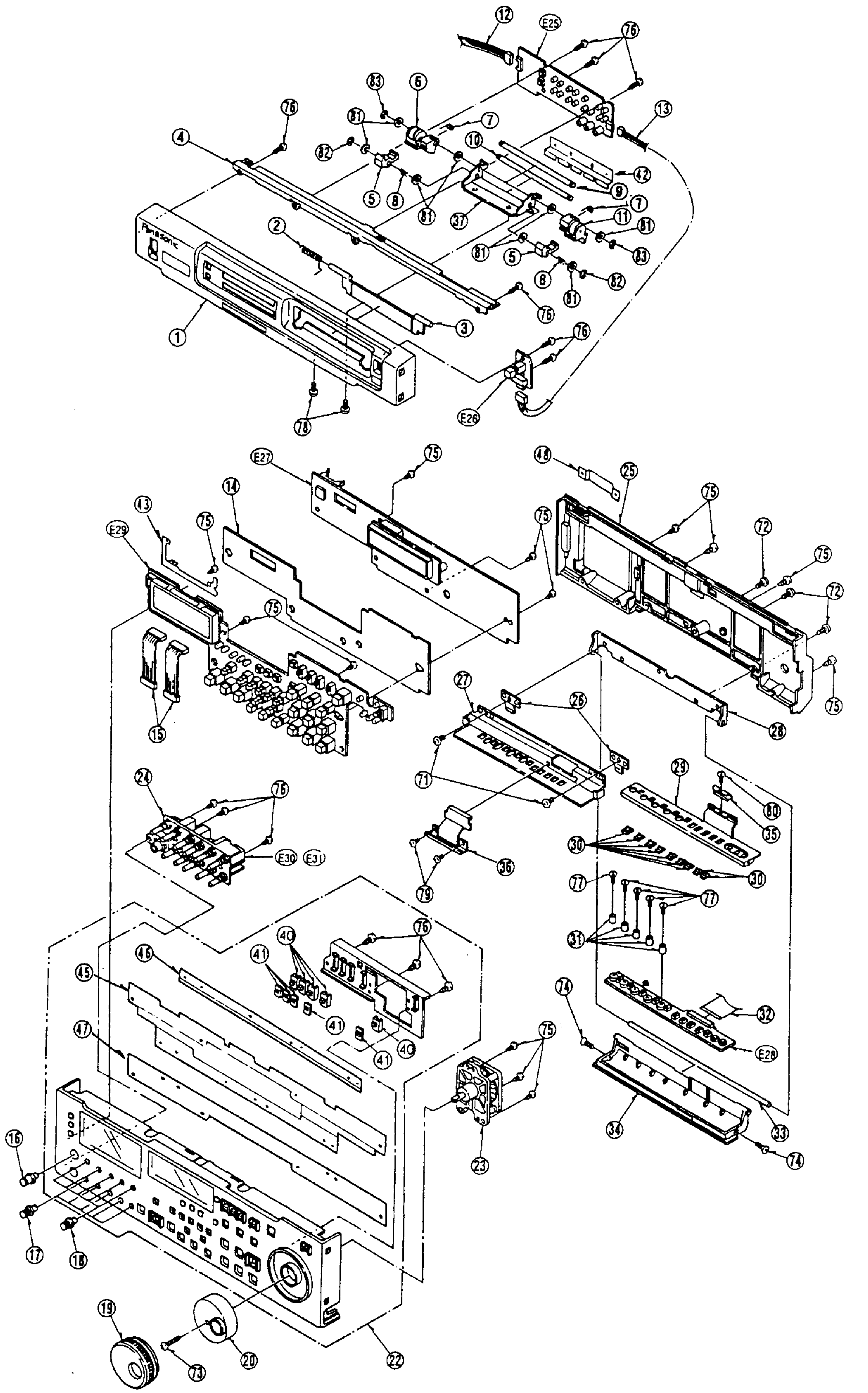
FRONT PANEL ASSEMBLY

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYP7122	UPPER FRONT PANEL 1 ASS'Y	1	FOR AJ-D940P
1	VYP7130	UPPER FRONT PANEL 1 ASS'Y	1	FOR AJ-D940E
2	VMB2923	BLINDER SPRING	1	
3	VKF3034	BLINDER PANEL	1	
4	VMP4864	UPPER FRONT PANEL ANGLE	1	
5	VDK0147	CASSETTE GUIDE CAM	2	
6	VGQ4009	CASSETTE GUIDE (L)	1	
7	VMB2922	CASSETTE GUIDE SPRING	2	
8	VMB2986	CAM SPRING	2	
9	VMS5864	CASSETTE COVER	1	
10	VMS6017	GUIDE CAM SHAFT	1	
11	VGQ4010	CASSETTE GUIDE (R)	1	
12	VEE9649	UP FRONT CONNECTION CABLE	1	
13	VEE9650	UP FRONT CONNECTION CABLE	1	
14	VMZ2501	INSULATION SHEET	1	
15	VEE9640	FRONT SW CABLE	2	
16	VGU5334	LEVER VR KNOB	1	
17	VXU0768-1	VR KNOB ASS'Y	5	
19	VGU5780	SEARCH DIAL COVER	1	
20	VGU8126	SEARCH DIAL KNOB	1	
22	VYP7124	LOWER FRONT PANEL 1 ASS'Y	1	
23	VSP1118	SEARCH DIAL	1	
24	VMP4860	VR ANGLE	1	
25	VKU0513	BACK COVER	1	FOR AJ-D940P
25	VKU0524	BACK COVER	1	FOR AJ-D940E
26	VMB2978	LEAF SPRING	2	
27	VGM1288	SUB CONTROL SUPPORT ANGLE	1	
28	VGM1287	SUB CONTROL ANGLE	1	
29	VGM1564	SUB SW ANGLE	1	
30	VGU7179	SLIDE SW KNOB	10	
31	VGU8077	VR KNOB	5	
32	VWJ28C2120LO	FR CPU SUB FFC	1	
33	VMS6012	SHAFT	1	
34	VKF2497	SUB SW DOOR	1	
35	VMC1241	EARTH PLATE	1	
36	VMP5091	EARTH PLATE SUB	1	
37	VMP4863	CASSETTE GUIDE ANGLE	1	
38	VMC1277	HEAD PHONE EARTH SPRING	1	
39	VMZ2671	SPACER	1	
40	VGU5287	SLIDE KNOB	5	
41	VGF0659	SLIDE KNOB SHEET	5	
71	XSB3+6FZ	SCREW	2	
72	XSB3+8FZ	SCREW	3	
73	XSN2+8	SCREW	1	
74	XSS26+6FZ	SCREW	2	
75	XTN4+10G	SCREW	13	
76	XTV3+8G	SCREW	16	
77	XQN14+C4	SCREW	5	
78	XTV3+8F	SCREW	2	
79	XSN2+3	SCREW	2	
80	XSN26+3	SCREW	1	
81	VMX2562	WASHER	8	
82	XUC2FP	E-RING	2	
83	XUC25FP	E-RING	2	
E25	VEP80A52B	UP FRONT 1 P. C. BOARD	1	
E26	VEP80852A	UP FRONT 2 P. C. BOARD	1	
E27	VEP86285B	FRONTUP FRONT 1 P. C. BOARD	1	
E28	VEP86148D	FRONT CPU SUB P. C. BOARD	1	
E29	VEP80A49C	FRONT SW P. C. BOARD	1	
E30	VEP80A99A	FRONT VR 1 P. C. BOARD	1	
E31	VEP80B00A	FRONT VR 2 P. C. BOARD	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks

FRONT PANEL ASSEMBLY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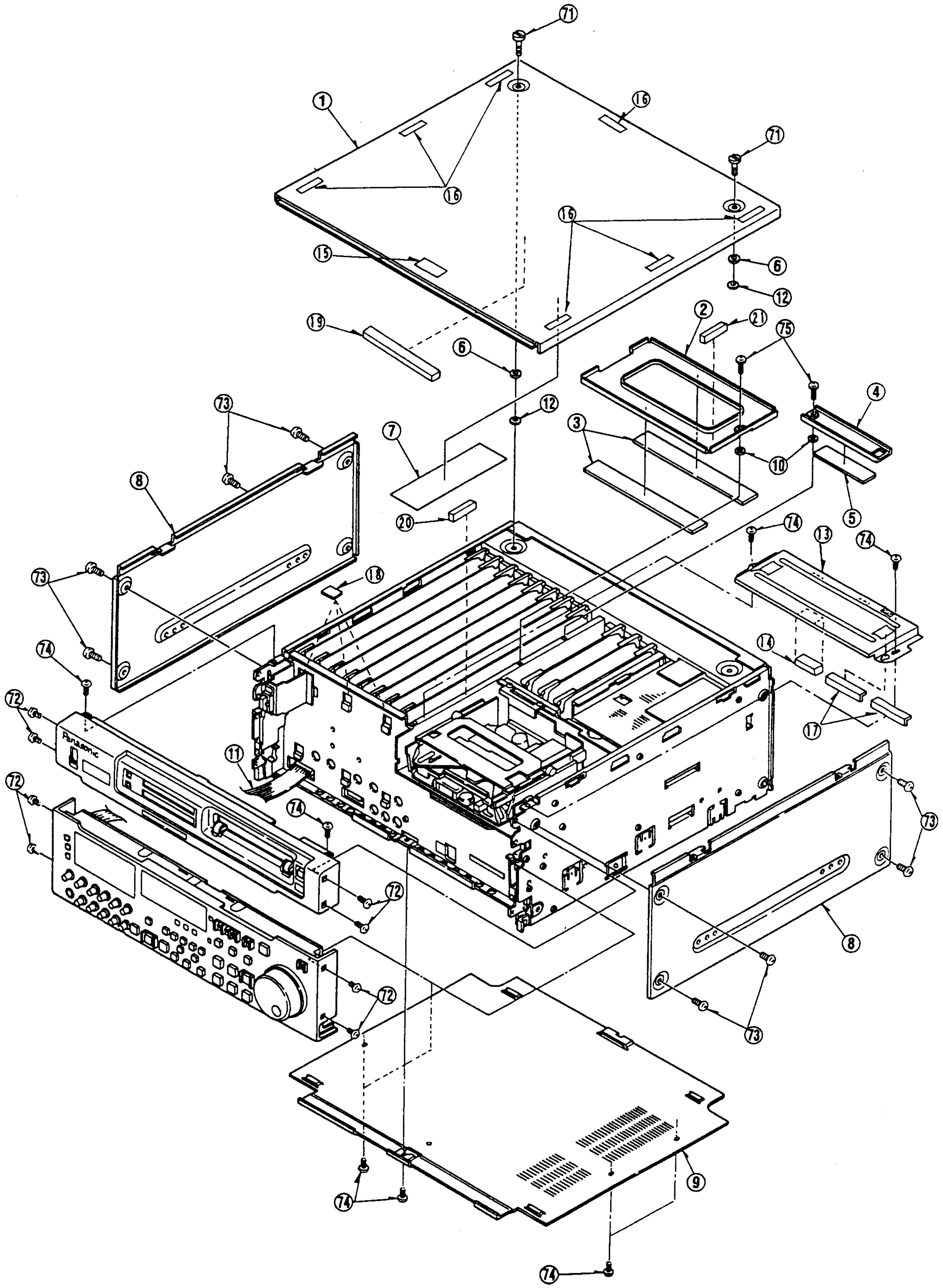
CASING PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VGM1270	TOP PANEL	1	
2	VMP4884	P.C.BOARD PLATE L	1	
3	VMX2511	P.C.BOARD RUBBER CUSHION L	2	
4	VMP4885	P.C.BOARD PLATE S	1	
5	VMX2512	P.C.BOARD RUBBER CUSHION S	1	
6	VMX2510	SPACER	2	
7	VMZ2325	TOP PANEL BARRIER	1	
8	VGM1271	SIDE PANEL	2	
9	VKU0514	BOTTOM PLATE	1	
10	VMX1558	NYLON WASHER	2	
11	VEE9641	FRONT CABLE	1	
12	VMX2582	WASHER	2	
13	VMP5265	CARRIAGE SUPPORT	1	
14	VMT0797	GASKET C	1	
18	VMT0797	GASKET C	3	
19	VMT0785	DUST PROOF CUSHION (B)	1	
20	VMT0786	DUST PROOF CUSHION (C)	1	
21	VMT0890	DUST PROOF CUSHION (C)	1	
71	VHD0274	SCREW	2	
72	XSB3+8FZ	SCREW	8	
73	XSB4+8FC	SCREW	8	
74	XTV3+6F	SCREW	5	
75	XYN3+K8	SCREW	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

CASING PARTS ASSEMBLY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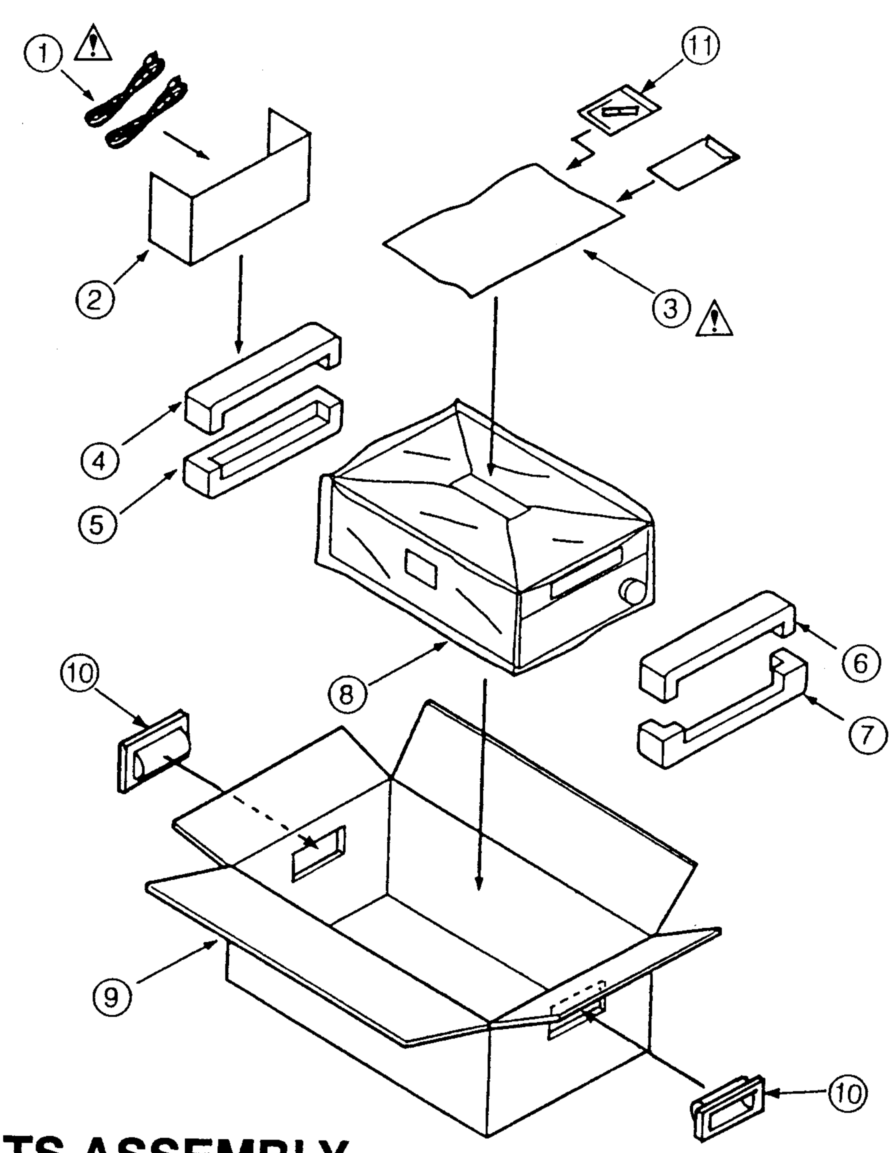
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

PACKING PARTS ASSEMBLY



PACKING PARTS ASSEMBLY

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VJA0488	POWER CODE	1	FOR AJ-D940P
⚠ 1	VJA0774	POWER CODE	1	FOR AJ-D940E(E)
⚠ 1	VJA0775	POWER CODE	1	FOR AJ-D940E(B)
2	VPN4305	ACCESSORY PAD	1	
⚠ 3	VQT7952	OPERATING INSTRUCTIONS	1	FOR AJ-D940P
⚠ 3	VQT7953	OPERATING INSTRUCTIONS	1	FOR AJ-D940E
4	VPN4302	CUSHION UL	1	
5	VPN4304	CUSHION LL	1	
6	VPN4606	CUSHION UR	1	
7	VPN4607	CUSHION LR	1	
8	VPF0277	POLYETHYLENE BAG	1	FOR AJ-D940P
8	VPF0673	POLYETHYLENE BAG	1	FOR AJ-D940E
9	VPG9734	PACKING CASE	1	FOR AJ-D940P
9	VPG9735	PACKING CASE	1	FOR AJ-D940E
10	VPF0149	HANDLE	2	
11	VXF0151	EMERGENCY EJECT ASS'Y	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks

ELECTRICAL REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP80A96A	MOTHER P.C.BOARD	1	(RTL)
■ E2	VEP82221A	F1 SERVO P.C.BOARD	1	(RTL)
■ E3	VEP86284B	F2 SYSCON P.C.BOARD	1	(RTL)
■ E4	VEP83444A	F3 NON TRK P.C.BOARD	1	(RTL)
■	VEP88234M	NON TRK SUB P.C.BOARD	1	(RTL)FOR VEP83444A
■ E5	VEP83452A	F4 SDI MAIN P.C.BOARD	1	(RTL)
■ E6	VEP83453A	F5 PB P.C.BOARD	1	(RTL)
■	VEP88234L	PB SUB P.C.BOARD	1	(RTL)FOR VEP83453A
■	VEP88235B	V BLK SUB P.C.BOARD	1	(RTL)FOR VEP83453A
■ E7	VEP83454B	F6 VIDEO OUT P.C.BOARD	1	(RTL)
■ E8	VEP84326C	F7 A PROCESS P.C.BOARD	1	(RTL)
■ E9	VEP84301C	F8 A AD/DA P.C.BOARD	1	(RTL)
■ E10	VEP84302B	H1 CUE P.C.BOARD	1	(RTL)
■ E11-13	VEP85177A	H2/H3/H4 EQUALIZER P.C.BOARD	1	(RTL)
■ E14	VEP85174A	HEAD AMP P.C.BOARD	1	(RTL)
■ E15	VEP80991A	A/C HEAD I/F P.C.BOARD	1	(RTL)
■ E16	VEP83417B	V/S JACK P.C.BOARD	1	(RTL)
■ E17	VEP81183A	POWER 1 P.C.BOARD	1	(RTL)
■ E18	VEP81184A	POWER 2 P.C.BOARD	1	(RTL)
■ E19	VEP80A58A	POWER CONNECTION P.C.BOARD	1	(RTL)
■ E20	VEP82216B	MECA I/F P.C.BOARD	1	(RTL)
■ E21	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
■ E22	VEP84303D	AUDIO JACK P.C.BOARD	1	(RTL)
■ E23	VEP84304B	AES/EBU P.C.BOARD	1	(RTL)
■ E24	VEP83385B	422DA SUB P.C.BOARD	1	(RTL)
■ E25	VEP80A52B	UP FRONT 1 P.C.BOARD	1	(RTL)
■ E26	VEP80852A	UP FRONT 2 P.C.BOARD	1	(RTL)
■ E27	VEP86285B	FRONT CPU P.C.BOARD	1	(RTL)
■ E28	VEP86148D	FRONT CPU SUB P.C.BOARD	1	(RTL)
■ E29	VEP80A49C	FRONT SW P.C.BOARD	1	(RTL)
■ E30	VEP80A99A	FRONT VR 1 P.C.BOARD	1	(RTL)
■ E31	VEP80B00A	FRONT VR 2 P.C.BOARD	1	(RTL)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP80A96A	MOTHER P.C.BOARD	1	(RTL)
P001-06	VJS3814	CONNECTOR (FEMALE)	6	
P007-10	VJS3510	CONNECTOR (FEMALE)	4	
P011-20	VJS3814	CONNECTOR (FEMALE)	10	
P021	VJP2891B016	CONNECTOR (MALE)	1	
P022	VJP1248T	CONNECTOR (MALE) 8P	1	
P023	VJP2891A030	CONNECTOR (MALE)	1	
P024	VJP3418A080	CONNECTOR (MALE)	1	
P025	VJP2824B003	CONNECTOR (MALE)	1	
P026	VJP2824B010	CONNECTOR (MALE)	1	
P027	VJP2824B008	CONNECTOR (MALE)	1	
P029, 30	VJS3375B060	CONNECTOR (FEMALE)	2	
P031	VJP3080	CONNECTOR (MALE)	1	
P032	VJP1230T	CONNECTOR (MALE) 3P	1	
P033	VJP3375A060	CONNECTOR (MALE)	1	
P777	VJP1231T	CONNECTOR (MALE) 4P	1	
		MISCELLANEOUS		
	VKC0392	SPACER	2	
	VMP4868	XLR GUIDE ANGLE (B)	1	
	VMP5641	MOTHER ANGLE (A)	1	
	VMP5642	MOTHER ANGLE (B)	1	
	VMP5643	MOTHER ANGLE (C)	1	
	XYE3+EF8FZ	SCREW	10	
	XTV26+6F	SCREW	2	
	XSN26+8FZ	SCREW	8	
	XNG26EFXS	NUT	8	
■ E2	VEP82221A	F1 SERVO P.C.BOARD	1	(RTL)
C7	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C8, C9	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C10	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C11, 12	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C13	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C15	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C30-34	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	5	
C35	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C36-38	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C39	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C40, 41	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C42-45	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C60, 61	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C63-74	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	12	
C80, 81	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C82	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C83	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C84	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C85, 86	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C87	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C88	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C89, 90	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C91	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C92, 93	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C94-96	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C120, 21	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C123	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C124, 25	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	2	
C126	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C127, 28	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C129, 30	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C131, 32	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C133, 34	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C135, 36	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C160, 61	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C162	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C163,64	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	2	
C165	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C166,67	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C168	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C170,71	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C172	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C173,74	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C175	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C202,03	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C204	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C205-07	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C211	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C212,13	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C214	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C215,16	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C218,19	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C220	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C230-32	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	3	
C233-36	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C237	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C238	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C239	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C240-43	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C246-51	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	6	
C260,61	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C263-70	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	8	
C280-84	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	5	
C286	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C300	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C303	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C304-07	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C309	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C322	ECUM1C104ZFN	C.CAPACITOR CH 16V 0.1U	1	
C323	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C328	ECUM1C104ZFN	C.CAPACITOR CH 16V 0.1U	1	
C329	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C333	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C335,36	ECUX1H050CCV	C.CAPACITOR CH 50V 5P	2	
C337	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C340	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C341	ECA1EXLV101	E.CAPACITOR 25V 100U	1	
C342,43	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C344	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C345	ECA1EXLV101	E.CAPACITOR 25V 100U	1	
C346	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C347,48	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C349-53	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	5	
C354	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C355	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C356	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C357	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C358	ECA1EXLV101	E.CAPACITOR 25V 100U	1	
C359	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C360	ECA1EXLV101	E.CAPACITOR 25V 100U	1	
C361	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C362	ECA1EXLV101	E.CAPACITOR 25V 100U	1	
C380,81	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C382	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C383	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C384	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C385,86	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C387	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C388	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C389	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C390	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C391	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C400	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C401-03	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C404-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C407	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C408	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C409-11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C412	ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C413	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C414	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C415	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C416	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C417	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C418	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C419	ECEV1EV220Q	E.CAPACITOR CH 25V 22U	1	
C420	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C421	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C422	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C423	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C424-27	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C428,29	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C430	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C431	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C432-34	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C450	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C451,52	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C453,54	ECUX1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C455	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C456	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C457	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C458,59	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	2	
C460	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C461	ECUX1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C462	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C463	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C464	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C465	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C466	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C467	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C468,69	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C470	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C471	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C472	ECUX1C474KBM	C.CAPACITOR CH 16V 0.47U	1	
C473	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C474,75	ECUX1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C476	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C477,78	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	2	
C479	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C480	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C481	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C482	ECUX1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C483	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C484	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C485	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C486	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C487	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C488	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C489,90	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C491	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C492	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C493	ECUX1C474KBM	C.CAPACITOR CH 16V 0.47U	1	
C510	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C511	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C512,13	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C514	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C515	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C516	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C517-19	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C520	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C521	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C522,23	ECEV1HV010Q	E.CAPACITOR CH 50V 1U	2	
C524	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C525	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C526	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C527,28	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C529	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C530-32	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C533	ECEV1AV330Q	E.CAPACITOR CH 10V 33U	1	
C534	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C535	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C536	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C537	ECEV1HV010Q	E.CAPACITOR CH 50V 1U	1	
C538	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C539	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C600,01	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C660,61	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	
C662,63	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C701-04	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	4	
C705-10	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	6	
C711	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C712	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C713,14	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C715	ECUM1C104ZFN	C.CAPACITOR CH 16V 0.1U	1	
C716-18	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C721	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C722	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C723,24	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C725	ECUM1C104ZFN	C.CAPACITOR CH 16V 0.1U	1	
C726-30	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	5	
C738	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C740,41	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C742,43	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C744	ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C751,52	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C827,28	ECUX1H080CCV	C.CAPACITOR CH 50V 8P	2	
C829,30	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C903,04	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C941	ECUX1H123KBV	C.CAPACITOR CH 50V 0.012U	1	
C942	ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C943,44	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C946-48	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C952-54	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
D3,D4	MA8075-H	DIODE	2	
D30,31	MA8030	DIODE	2	
D32	MA8047-H	DIODE	1	
D33-35	MA142K	DIODE	3	
D80-83	MA147	DIODE	4	
D120-23	MA147	DIODE	4	
D160-63	MA147	DIODE	4	
D201	MA142K	DIODE	1	
D202	MA8047-H	DIODE	1	
D203	MA142K	DIODE	1	
D204,05	MA8047-H	DIODE	2	
D206-08	MA142K	DIODE	3	
D300-02	LN1251CAL	DIODE	3	
D340	MA728	DIODE	1	
D341	MA736	DIODE	1	
D342	MA728	DIODE	1	
D343	MA736	DIODE	1	
D344	MA8039-L	DIODE	1	
D380	MA728	DIODE	1	
D381	MA736	DIODE	1	
D382	MA728	DIODE	1	
D383	MA736	DIODE	1	
D400-05	MA738	DIODE	6	
D406,07	MA8047-H	DIODE	2	
D408-13	MA738	DIODE	6	
D450	MA142K	DIODE	1	
D451-56	MA738	DIODE	6	
D457	MA142K	DIODE	1	
D458-63	MA738	DIODE	6	
D510-13	MA701A	DIODE	4	
D514-19	MA704A	DIODE	6	
D701-07	MA142K	DIODE	7	
D711-14	MA147	DIODE	4	
D715	MA142K	DIODE	1	
D911	MA147	DIODE	1	
D913	MA147	DIODE	1	
FL320,21	VLF0576	FILTER	2	
FL510-15	VLF0576	FILTER	6	
IC2	UPC4082G2	IC	1	
IC3	TC4052BF	IC	1	
IC30	UPC4082G2	IC	1	
IC31	NJM4580ED	IC	1	
IC32	AD633JR	IC	1	
IC33	UPC4082G2	IC	1	
IC34	NVHC74FT	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC35	TC7W00F	IC	1	
IC60,61	MC74HC08AF	IC	2	
IC63-66	NVHC74FT	IC	4	
IC67	MC74HC157AF	IC	1	
IC68	T74HC191AF	IC	1	
IC69	MC74HC32AF	IC	1	
IC70	MC74HC86AF	IC	1	
IC71	MC74HC04AF	IC	1	
IC72	NVHC74FT	IC	1	
IC73	TVHC11FT	IC	1	
IC74	MC74HC27F	IC	1	
IC80,81	UPC4741G2	IC	2	
IC82	NJM2901M	IC	1	
IC83	MC74HC4050F	IC	1	
IC120,21	UPC4741G2	IC	2	
IC160	NJM2903M	IC	1	
IC161,62	UPC4741G2	IC	2	
IC200	ADG408BR	IC	1	
IC201	AD7896AR	IC	1	
IC202	AD7943BR	IC	1	
IC203	SMP08FS	IC	1	
IC204	NVHC244F	IC	1	
IC207	UPC4082G2	IC	1	
IC230	MC68332CFC25	IC	1	
IC231	TL7705CPSB	IC	1	
IC235	VS12976A	IC	1	
IC236,37	74AC74SJ	IC	2	
IC240	74AC08SJ	IC	1	
IC241	MC74HC244AF	IC	1	
IC260,61	Y7C18525SC	IC	2	
IC262	IDT71321A55	IC	1	
IC263,64	SN74S1051NS	IC	2	
IC265	NVHC175F	IC	1	
IC266	NVHC164F	IC	1	
IC267	NVHC273F	IC	1	
IC268	MC74HC74AF	IC	1	
IC269	MC74HC86AF	IC	1	
IC280	NVHC244F	IC	1	
IC282	SLA909SF1G	IC	1	
IC300	TE7751	IC	1	
IC301,02	MC74HC244AF	IC	2	
IC304,05	MC74HC244AF	IC	2	
IC324	T74VHCU04F	IC	1	
IC325	74AC74SJ	IC	1	
IC340	TL1451CNS	IC	1	
IC341	UPC393G2	IC	1	
IC342	NJM4580ED	IC	1	
IC400,01	AN3890FBS	IC	2	
IC402	NJM4580ED	IC	1	
IC403	NJM2903M	IC	1	
IC404	NJM4580ED	IC	1	
IC450,51	AN3834S	IC	2	
IC452	UPC4558G2	IC	1	
IC510,11	NJM78L09UA	IC	2	
IC512,13	NJM79L09UA	IC	2	
IC514	XC62AP5002P	IC	1	
IC515,16	XC62AP3002P	IC	2	
IC517	NJM79L05UA	IC	1	
IC600	NJM2903M	IC	1	
IC660	UPC4741G2	IC	1	
IC701,02	UPC4741G2	IC	2	
IC703	MC14052BF	IC	1	
IC704	UPC4082G2	IC	1	
IC708	NVHC14F	IC	1	
IC711	NVHC74FT	IC	1	
IC712	MC74HC74AF	IC	1	
IC713,14	SC371025AVFU	IC	2	
IC715	NVHC157FT	IC	1	
IC716	TC7WU04F	IC	1	
IC717	NVHC32FT	IC	1	
IC821	MC14053BF	IC	1	
IC902	NVHC74FT	IC	1	
IC903	MC74HC74AF	IC	1	
IC904	TC7WU04F	IC	1	
IC910	MC14052BF	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC921	UPC4741G2	IC	1	
IC922	MC14538BF	IC	1	
IS235	VJS2336A040	IC SOCKET	1	
L230,31	VLQ0576	COIL	2	
L340	VLQ0504331K	COIL 330UH	1	
L341	VLQ0407120M	COIL 12UH	1	
L342	VLQ0504331K	COIL 330UH	1	
L380	VLQ0407120M	COIL 12UH	1	
L381,82	VLQ0504331K	COIL 330UH	2	
L510	VLP0133	COIL	1	
P1,P2	VJP3454B096	CONNECTOR (MALE)	2	
Q340,41	2SB1174-Q	TRANSISTOR	2	
Q380,81	2SB1174-Q	TRANSISTOR	2	
Q400	PU3210	TRANSISTOR	1	
Q401	PU3110	TRANSISTOR	1	
Q402	PU3210	TRANSISTOR	1	
Q403	PU3110	TRANSISTOR	1	
Q510,11	2SD601A-R	TRANSISTOR	2	
QR5,R6	UN5213	TRANSISTOR-RESISTOR	2	
QR7,R8	UN5113	TRANSISTOR-RESISTOR	2	
QR30	UN5213	TRANSISTOR-RESISTOR	1	
QR81,82	UN5213	TRANSISTOR-RESISTOR	2	
QR83	UN5113	TRANSISTOR-RESISTOR	1	
QR84	UN5213	TRANSISTOR-RESISTOR	1	
QR85	UN5113	TRANSISTOR-RESISTOR	1	
QR120	UN5213	TRANSISTOR-RESISTOR	1	
QR121	UN5113	TRANSISTOR-RESISTOR	1	
QR122	UN5213	TRANSISTOR-RESISTOR	1	
QR123	UN5113	TRANSISTOR-RESISTOR	1	
QR124	UN5213	TRANSISTOR-RESISTOR	1	
QR160	UN5213	TRANSISTOR-RESISTOR	1	
QR161	UN5113	TRANSISTOR-RESISTOR	1	
QR162	UN5213	TRANSISTOR-RESISTOR	1	
QR163	UN5113	TRANSISTOR-RESISTOR	1	
QR164	UN5213	TRANSISTOR-RESISTOR	1	
QR340,41	UN5111	TRANSISTOR-RESISTOR	2	
QR400	UN5213	TRANSISTOR-RESISTOR	1	
QR401	UN5113	TRANSISTOR-RESISTOR	1	
QR600	UN5217	TRANSISTOR-RESISTOR	1	
QR601	UN5211	TRANSISTOR-RESISTOR	1	
QR660	UN5213	TRANSISTOR-RESISTOR	1	
QR701	UN5213	TRANSISTOR-RESISTOR	1	
R12,13	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R14	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R15	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R16	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R17	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R18	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R19,20	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R21	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R32	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R33	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R34	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R35	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R36	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R37	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R38,39	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	2	
R40	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R41	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R42	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R43-45	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R48	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R49	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R50	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R51	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R52	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R53	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R54	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R55	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R56-58	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R59	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R60	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R61-66	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R69-77	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	9	
R80,81	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R82,83	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R84	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R85	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R86	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R87,88	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R89,90	ERJ3RED224	M.RESISTOR CH 1/16W 220K	2	
R91,92	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	2	
R93	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R94	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R95	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R96	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R97	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R98,99	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R100,01	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R102,03	ERJ3RED224	M.RESISTOR CH 1/16W 220K	2	
R104	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R105	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R106	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R107	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R108	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R109	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R120,21	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R122,23	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R124	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R125	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R126	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R127	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R128,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R130,31	ERJ3RED224	M.RESISTOR CH 1/16W 220K	2	
R132,33	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	2	
R134	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R135	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R136	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R137	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R138	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R139,40	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R141,42	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R143,44	ERJ3RED224	M.RESISTOR CH 1/16W 220K	2	
R145	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R146	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R147	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R148	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R149	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R160,61	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R162,63	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R164	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R165	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R166	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R167	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R168,69	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R170,71	ERJ3RED224	M.RESISTOR CH 1/16W 220K	2	
R172	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R173	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R174	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R175	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R176	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R177,78	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	2	
R179,80	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R181,82	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R183,84	ERJ3RED224	M.RESISTOR CH 1/16W 220K	2	
R185	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R186	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R187	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R188	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R189	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R203	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R204,05	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	2	
R206	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R214	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R215,16	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R217,18	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R222	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R234	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R235-43	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	9	
R244	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R245	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R246	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R247	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R248-51	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	4	
R259,60	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R261	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R262	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R263,64	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R265	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R266	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R267-69	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R270	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R275-78	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R280	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R281,82	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R283-85	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R300	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R301	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R305	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R314-16	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	3	
R318,19	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R330	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R331	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R332	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R340	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R341	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R342	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R343	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R344	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R345	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R346	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R347	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R348	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R349	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R350	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R351-53	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R354	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R355	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R356	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R357	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R358	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R359	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R360	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R361	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R362,63	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R364	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R365	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R366	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R367	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R368	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R369	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R370	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R371	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R372	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R373	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R374,75	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R380	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R381	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R382	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R383	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R384	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R385	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R400,01	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R402	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R403	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R404,05	ERJ12YJR68	M.RESISTOR CH 1/2W 0.68	2	
R406,07	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	
R408	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R409	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R410	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R411	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R412	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R413	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R414,15	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R416	ERJ3GEYJ621	M.RESISTOR CH 1/16W 620	1	
R417	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R418	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R420	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R421	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R422	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R423	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R424,25	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R426	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R427	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R428,29	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R430,31	ERJ12YJR68	M.RESISTOR CH 1/2W 0.68	2	
R432,33	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R436,37	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R450	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R451	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R452	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R453-55	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	3	
R456,57	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	2	
R458	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R459	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R460	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R461	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R462	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R463	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R464,65	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R466,67	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	2	
R468	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R469	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R470	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R471	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R510	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R511,12	ERJ3RBD391	M.RESISTOR CH 1/16W 390	2	
R513	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R514-17	ERJ3RBD391	M.RESISTOR CH 1/16W 390	4	
R550-59	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	10	
R600	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R601,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R603	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R605,06	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R621	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R622-27	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	6	
R628	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R631,32	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R640	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R650,51	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R652	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R653	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R654	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R655	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R656	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R660	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R661,62	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R663,64	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R666	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R667-72	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	6	
R673	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R674	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R675-81	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	7	
R701-04	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	4	
R705-14	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	10	
R715-17	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	3	
R718	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R719	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R720	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R722-24	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R726	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R727	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R728,29	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R730,31	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R736	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R739	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R741	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R742-44	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	3	
R745	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R746	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R747-49	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	3	
R750	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R751	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R752, 53	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R754	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R761	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R762	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R765, 66	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R769	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R770	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R771	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R772, 73	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R774-76	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R778	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R780	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R781	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R782	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R783, 84	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R793	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R794	ERJ6GEYJ301	M.RESISTOR CH 1/10W 300	1	
R795	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R797	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R840	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R842, 43	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
R864	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R865	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R866	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R871-76	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	6	
R902	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R904-06	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R908-10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R926, 27	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R934, 35	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R942	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R944	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R948	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R950	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R981-85	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	5	
R986	ERJ3RBD433	M.RESISTOR CH 1/16W 43K	1	
R987	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R989-91	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R995	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R907	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TG510, 11	VJR0646	TEST POINT	2	
TP2	EYF6CU	TEST POINT	1	
TP30, 31	VJR0646	TEST POINT	2	
TP32, 33	EYF6CU	TEST POINT	2	
TP34, 35	VJR0646	TEST POINT	2	
TP60	EYF6CU	TEST POINT	1	
TP80-83	VJR0646	TEST POINT	4	
TP120-23	VJR0646	TEST POINT	4	
TP160-63	VJR0646	TEST POINT	4	
TP201	VJR0646	TEST POINT	1	
TP230, 31	VJR0646	TEST POINT	2	
TP280-82	VJR0646	TEST POINT	3	
TP300, 01	VJR0646	TEST POINT	2	
TP400, 01	VJR0646	TEST POINT	2	
TP450, 51	VJR0646	TEST POINT	2	
TP660, 61	EYF6CU	TEST POINT	2	
TP701-04	EYF6CU	TEST POINT	4	
TP721-29	VJR0646	TEST POINT	9	
TP731	EYF6CU	TEST POINT	1	
TP732	VJR0646	TEST POINT	1	
TP734	VJR0646	TEST POINT	1	
TP741-43	EYF6CU	TEST POINT	3	
TP801-03	EYF6CU	TEST POINT	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TP901, 02	EYF6CU	TEST POINT	2	
X320	VSX0919	CRYSTAL OSCILLATOR	1	
X701	VSX0918	CRYSTAL OSCILLATOR	1	
X801	VSX0645	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E3	VEP86284B	F2 SYSCON P.C.BOARD	1	(RTL)
C1	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C9	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C10, 11	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	2	
C12	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C13	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C14	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C15	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C16-26	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	11	
C27-29	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C30	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C32-34	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C37	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C38	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C46	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C47	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C49	ECUX1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C51	ECUX1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C53	ECUX1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C55	ECUX1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C56-58	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C59, 60	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C65	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C66	ECA1CHG682	E.CAPACITOR 16V 6800U	1	
C67	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C68, 69	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C70, 71	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C72	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C73	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C74	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C76	ECA1CHG682	E.CAPACITOR 16V 6800U	1	
C77, 78	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C79	ECUX1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C81	ECUX1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C83	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C86, 87	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C88-90	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C93	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C94-96	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	3	
C97	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C98	ECUX1E105KBP	C.CAPACITOR CH 25V 1U	1	
C99	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C100	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C101	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C102	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C500, 01	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	2	
C502	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C503-06	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C508-13	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	6	
C514-19	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	6	
C520-22	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C523	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C524	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C525	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C526, 27	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C528-35	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	8	
C536	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C537, 38	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C543-45	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C547	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C548	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C549,50	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C551	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C552-55	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C560,61	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C703-13	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	11	
C714	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C715,16	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	2	
C717-21	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C722,23	ECUM1H050CCN	C.CAPACITOR CH 50V 5P	2	
C724,25	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C728	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C729	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C730	ECUX1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C731	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C732	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C733,34	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	2	
C735	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C736	ECA1CAXN330	E.CAPACITOR 16V 33U	1	
C737	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C738	ECA1CAXN330	E.CAPACITOR 16V 33U	1	
C739,40	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C741	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C742	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C743	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C744,45	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	2	
C746	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C747-56	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	10	
C758-61	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C762	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C763	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C764	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C765	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C766	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C767	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C768	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C769	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C770	ECUX1H561JCN	C.CAPACITOR CH 50V 560P	1	
C771	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C772,73	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C774	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C775	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C776	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C777-80	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C781,82	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C783	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C784	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C785	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C800-03	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	4	
C804-09	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	6	
C811,12	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C900,01	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C902,03	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C904-07	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	4	
C908-11	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
D1	MA157	DIODE	1	
D2-D5	MA715	DIODE	4	
D8	MA152WK	DIODE	1	
D9	MA3068-H	DIODE	1	
D10	MA3051-H	DIODE	1	
D11	MA3047-M	DIODE	1	
D12	MA3100-M	DIODE	1	
D13	MA3051-H	DIODE	1	
D14	MA3075-M	DIODE	1	
D15	21D004	DIODE	1	
D16	MA3051-H	DIODE	1	
D17	MA157	DIODE	1	
D18-22	MA152WK	DIODE	5	
D25-27	MA152WK	DIODE	3	
D28-43	MA738	DIODE	16	
D44	MA152WK	DIODE	1	
D45-48	NSQ03A04	DIODE	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D49,50	SN74S1051NS	IC	2	
D51	MA3062-L	DIODE	1	
D52	MA3082M	DIODE	1	
D53	MA3075-M	DIODE	1	
D54	MA738	DIODE	1	
D55	MA152WK	DIODE	1	
D56	MA3030-H	DIODE	1	
D500	MA152WK	DIODE	1	
D503	MA152WK	DIODE	1	
D504,05	MA715	DIODE	2	
D506	MA152WK	DIODE	1	
D507	MA715	DIODE	1	
D508	MA152WK	DIODE	1	
D701-06	MA715	DIODE	6	
D709	MA715	DIODE	1	
D711-14	MA157	DIODE	4	
D715	MA152WK	DIODE	1	
D720-22	SN74S1051NS	IC	3	
D723-27	MA715	DIODE	5	
FL701,02	VLF0576	FILTER	2	
FL900-03	VLF0576	FILTER	4	
IC1	M37702S4AFP	IC	1	
IC2	VSI2972A	IC	1	
IC3	74F573SJ	IC	1	
IC4	74F138SJ	IC	1	
IC5	74F573SJ	IC	1	
IC6	TL7705CPSB	IC	1	
IC7	MC74HC132AF	IC	1	
IC8	MC74HC04AF	IC	1	
IC9,10	74AC32SJ	IC	2	
IC11,12	74F32SJ	IC	2	
IC13	MC74HC74AF	IC	1	
IC14	74F11SJ	IC	1	
IC15	IDT71321A55	IC	1	
IC16	74F245SJ	IC	1	
IC17	STK14C88N45	IC	1	
IC19,20	74F541SJ	IC	2	
IC23	74F245SJ	IC	1	
IC26	TE7751	IC	1	
IC27,28	M54649L	IC	2	
IC29	NJM2901M	IC	1	
IC30	NJM2904M	IC	1	
IC31,32	MC14538BF	IC	2	
IC33	74F32SJ	IC	1	
IC34	74F00SJ	IC	1	
IC35	NJM2901M	IC	1	
IC36,37	TC7S14F	IC	2	
IC38	MC14538BF	IC	1	
IC39	NJM2904M	IC	1	
IC500	HD64180ZRP10	IC	1	
IC501,02	MC74HC541AF	IC	2	
IC503	VSI2973A	IC	1	
IC504	K6256DLG7L	IC	1	
IC505	IDT71321A55	IC	1	
IC506	MC74HC138AF	IC	1	
IC507	74F32SJ	IC	1	
IC508	MC74HC00AF	IC	1	
IC509	T74HC191AF	IC	1	
IC510	Z84C4310FEC	IC	1	
IC511,12	MC74HC126AF	IC	2	
IC513,14	SN75C1168NS	IC	2	
IC515	MC1488M	IC	1	
IC516	MC1489AM	IC	1	
IC517	MC14024BF	IC	1	
IC518	TE7751	IC	1	
IC519,20	MC14021BF	IC	2	
IC521,22	MC14094BF	IC	2	
IC523	MC74HC04AF	IC	1	
IC524	MC14050BF	IC	1	
IC525	SN74LS38NS	IC	1	
IC527	TE7751	IC	1	
IC528,29	MC14021BF	IC	2	
IC530,31	T74HC191AF	IC	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC532	MC74HC574AF	IC	1	
IC534,35	MC14021BF	IC	2	
IC536	MC14050BF	IC	1	
IC541	MC74HC00AF	IC	1	
IC701	M37702S4AFP	IC	1	
IC702	VSI2974A	IC	1	
IC703	K6256DLG7L	IC	1	
IC704	74F573SJ	IC	1	
IC705,06	74F138SJ	IC	2	
IC707,08	74F32SJ	IC	2	
IC709	74F00SJ	IC	1	
IC710	MN51040VPI	IC	1	
IC711	MC74HC574AF	IC	1	
IC712	74AC32SJ	IC	1	
IC714,15	74F541SJ	IC	2	
IC716	74F245SJ	IC	1	
IC717	74F541SJ	IC	1	
IC718	MC14053BF	IC	1	
IC719	NJM4560MD	IC	1	
IC720	NJM2068MD	IC	1	
IC721	UPC319G2	IC	1	
IC722	UPC4741G2	IC	1	
IC723	NJM78L09UA	IC	1	
IC724	NJM79L09UA	IC	1	
IC725,26	NJM084M	IC	2	
IC727	MC74HCU04AF	IC	1	
IC728,29	74F74SJ	IC	2	
IC730	74F32SJ	IC	1	
IC731	74F245SJ	IC	1	
IC732	74F08SJ	IC	1	
IC733	MC14053BF	IC	1	
IC734	NJM084M	IC	1	
IS2	VJS2336A032	IC SOCKET	1	
IS503	VJS2336A032	IC SOCKET	1	
IS702	VJS2336A032	IC SOCKET	1	
L2	VLQ0319K470	COIL 47UH	1	
L500-03	VLQ0576	COIL	4	
L701	VLQ0163J470	COIL 47UH	1	
L900-03	VLP0133	COIL	4	
LED1-D4	LN1251CAL	DIODE	4	
P1,P2	VJP3454B096	CONNECTOR (MALE)	2	
Q3	2SB710A-R	TRANSISTOR	1	
Q4	2SB936A-Q	TRANSISTOR	1	
Q5,Q6	2SD601A-R	TRANSISTOR	2	
Q7,Q8	2SB1073-R	TRANSISTOR	2	
Q9	2SD601A-R	TRANSISTOR	1	
Q10	2SB709A-R	TRANSISTOR	1	
Q11,12	2SD1119-R	TRANSISTOR	2	
Q13	2SB709A-R	TRANSISTOR	1	
Q14	2SD601A-R	TRANSISTOR	1	
Q15,16	2SB1073-R	TRANSISTOR	2	
Q17	2SD601A-R	TRANSISTOR	1	
Q18	2SB709A-R	TRANSISTOR	1	
Q19,20	2SD1119-R	TRANSISTOR	2	
Q21	2SB709A-R	TRANSISTOR	1	
Q22	2SD601A-R	TRANSISTOR	1	
Q23,24	2SB1175	TRANSISTOR	2	
Q25	2SD601A-R	TRANSISTOR	1	
Q26	2SB709A-R	TRANSISTOR	1	
Q27,28	2SD1747PQY	TRANSISTOR	2	
Q29	2SB709A-R	TRANSISTOR	1	
Q30	2SD601A-R	TRANSISTOR	1	
Q31,32	2SB1073-R	TRANSISTOR	2	
Q33	2SD601A-R	TRANSISTOR	1	
Q34	2SB709A-R	TRANSISTOR	1	
Q35,36	2SD1119-R	TRANSISTOR	2	
Q37	2SB709A-R	TRANSISTOR	1	
Q38	2SD601A-R	TRANSISTOR	1	
Q39	2SB936A-Q	TRANSISTOR	1	
Q704,05	2SB709A-R	TRANSISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR3-10	UN2213	TRANSISTOR-RESISTOR	8	
QR11-16	UN2214	TRANSISTOR-RESISTOR	6	
QR17	UN2213	TRANSISTOR-RESISTOR	1	
QR18-26	UN2214	TRANSISTOR-RESISTOR	9	
QR27,28	UN2113	TRANSISTOR-RESISTOR	2	
QR29,30	UN2214	TRANSISTOR-RESISTOR	2	
QR31,32	UN2113	TRANSISTOR-RESISTOR	2	
QR33,34	UN2214	TRANSISTOR-RESISTOR	2	
QR35,36	UN2113	TRANSISTOR-RESISTOR	2	
QR37,38	UN2213	TRANSISTOR-RESISTOR	2	
QR39,40	UN2113	TRANSISTOR-RESISTOR	2	
QR41	UN2213	TRANSISTOR-RESISTOR	1	
QR43	UN2213	TRANSISTOR-RESISTOR	1	
QR44	UN2214	TRANSISTOR-RESISTOR	1	
QR45	UN2213	TRANSISTOR-RESISTOR	1	
R1-R5	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	5	
R6-10	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R11,12	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	2	
R13,14	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R16	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R17	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R18,19	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R20	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R21,22	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R23,24	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R25,26	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R27,28	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R29	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R33-35	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R38,39	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R43	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R44	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R45	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R46	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R47	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R48	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R49	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R54,55	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R56	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R57	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R58-61	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	4	
R62	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R63-70	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	8	
R76	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R82	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R83	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R84-88	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	5	
R90-95	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	6	
R96	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R97	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R100	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R101,02	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R103,04	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R105	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R106	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R108	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R109,10	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R111,12	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R113	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R114	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R116	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R117,18	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R119,20	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R121	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R122	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R124	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R125,26	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R127,28	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R129-37	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	9	
R138,39	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R141,42	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R144	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R145-47	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R150	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R152	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R153	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R154	ERX1SJ1R0	M.RESISTOR 1W 1.0	1	
R155	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R156	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R157	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R158	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R159	ERG1SJ220	M.RESISTOR 1W 22	1	
R160	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R161	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R162,63	ERJ8GCYG151	M.RESISTOR CH 1/8W 150	2	
R164,65	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
R166	ERJ8GCYG152	M.RESISTOR CH 1/8W 1.5K	1	
R167-69	ERJ8GCYG681	M.RESISTOR CH 1/8W 680	3	
R170	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R171	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R172,73	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R174-81	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R182	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R184	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R185	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R186	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R187-90	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	4	
R191	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R192	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R193,94	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R195	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R196,97	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R198	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R199,00	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R201	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R202	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R203,04	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R205	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R206	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R207,08	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R209	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R210,11	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R212	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R213,14	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R215	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R216,17	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R218	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R219,20	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R221	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R222	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R223,24	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R225	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R226	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R227,28	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R229	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R230,31	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R232	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R233,34	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R235	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R236,37	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R238	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R239,40	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R241	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R242	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R243,44	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R245	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R246	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R247,48	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R249	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R250,51	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R252	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R253,54	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R255	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R256,57	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R258	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R259,60	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R261	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R262	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R263	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R266-69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R271	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R273	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R275	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R277	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R281	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R284,85	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R288	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R290	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R291	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R292,93	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R294	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R295	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R296	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R297	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R298	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R299	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R304-15	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	12	
R316,17	ERG1SJ100	M.RESISTOR 1W 10	2	
R318	ERX1SJ6R2	M.RESISTOR 1W 6.2	1	
R319	ERG1SJ100	M.RESISTOR 1W 10	1	
R320	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R321-28	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R329,30	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R332	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R333	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R334	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R337-39	ERJ8GCYG681	M.RESISTOR CH 1/8W 680	3	
R341	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R342	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R345	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R346	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R348	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R349-62	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	14	
R365	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R366	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R367	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R370,71	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R380	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R381	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R382	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R383-85	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	3	
R387	ERJ8GCYG152	M.RESISTOR CH 1/8W 1.5K	1	
R388,89	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R392	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R400,01	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R402	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R403-05	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	3	
R411	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R413	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R500	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R501	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R502,03	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R504-11	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R512	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R513-15	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R516,17	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R518,19	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R520	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R521	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R523,24	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R525	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R527	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R528-31	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	4	
R532,33	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R534	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R535,36	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R537	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R542	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R543	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R544	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R545	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R546	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R547-49	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R550,51	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R554-58	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R562-65	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R580	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R585	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R590-94	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	5	
R598	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R599	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R606,07	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R608	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R609	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R610-17	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R629	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R632	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R634	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R636	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R638,39	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R641	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R642	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R665	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R705-10	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	6	
R711-16	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	6	
R717	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R718,19	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R723	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R725	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R726	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R728	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R729-31	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R732-34	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R735	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R736	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R737	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R738	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R739,40	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R741,42	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	2	
R743,44	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R745,46	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R747	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R748	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R749,50	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R751	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R754	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R755	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R757-59	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	3	
R762	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R764,65	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R766	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R767-69	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R770	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R771	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R772	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R773	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R774	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R775,76	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	
R777	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R778-81	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	4	
R782	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R783	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R784	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R785	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R786	ERJ6RED820	M.RESISTOR CH 1/10W 82	1	
R787	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R788	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R789	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R790	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R791	ERJ6RBD683	M.RESISTOR CH 1/10W 68K	1	
R792	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R793	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R794,95	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R796	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R797,98	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	2	
R799	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R800,01	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R802	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R803,04	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	2	
R805-08	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	4	
R809	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R810	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R811,12	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R813	ERJ6GEYG824	M.RESISTOR CH 1/10W 820K	1	
R814	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R816-39	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	24	
R840-47	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R855,56	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R858,59	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R860-62	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R863,64	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R865	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R866	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R867	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R868	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R869	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R870	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R871,72	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R873	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R874,75	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R876	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R877,78	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R879,80	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R881	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R882,83	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R884	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R885	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R886	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R887,88	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R890	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R900-03	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R910	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R913	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R917	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R919	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R920	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R921	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R924	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R925	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R928	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R929	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R930-32	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R934	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R936	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R937-39	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R942,43	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R946	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R948	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R950	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R951	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R952	ERJ6GEYG184	M.RESISTOR CH 1/10W 180K	1	
R953	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R954	ERJ6GEYG184	M.RESISTOR CH 1/10W 180K	1	
R955	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R957	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R958	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R960	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R961-68	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R979-84	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	6	
R985	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R990,91	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R992	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R993	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R995,96	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R997	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R998	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1000,01	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R1002	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R1003	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1005,06	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R1007	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R1008	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1010,11	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1012	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R1013	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1015,16	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R1017	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R1018	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1020,21	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
SW501	VSS0367-08B	SWITCH	1	
TG1	EYF6CU	TEST POINT	1	
TG701	EYF6CU	TEST POINT	1	
TP8	EYF6CU	TEST POINT	1	
TP13,14	EYF6CU	TEST POINT	2	
X1	VSX0641	CRYSTAL OSCILLATOR	1	
X500	VSX0641	CRYSTAL OSCILLATOR	1	
X701	VSX0654	CRYSTAL OSCILLATOR	1	
X702	VSX1001	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E4	VEP83444A	F3 NON TRK P.C.BOARD	1	(RTL)
■	VEP88234M	NON TRK SUB P.C.BOARD	1	(RTL)FOR VEP83444A
C1-C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	FOR VEP88234M
C3041-49	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	9	
C3050-61	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	12	
C3062-67	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	6	
C3161-69	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	9	
C3201-09	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	9	
C3241-49	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	9	
C3281-89	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	9	
C3321-29	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	9	
C3361-69	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	9	
C3401-05	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C3407	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3421-25	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C3427	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3441-45	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C3447	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3461-65	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C3467	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3481-85	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C3487	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3501-05	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C3507	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3521-28	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C3529	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3530-36	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	7	
C3571-76	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	6	
C3621-25	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C3641-46	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	6	
C3651-56	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	6	
C3681,82	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3701-05	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C3741	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3742,43	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C3745	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3771-93	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	23	
C3801-04	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C3811	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3821-25	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C3841	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3842-49	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C3850	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3851,52	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3881-87	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	7	
C3888,89	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C3890	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3891	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3892	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3893	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3931-33	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	3	
C3934-36	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C3937-42	ECUX1C224KBN	C.CAPACITOR CH 16V 0.22U	6	
C3943-51	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	9	
C3971-76	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	6	
C3984	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3985,86	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3987,88	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	2	
C3989,90	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3991,92	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
D3741	LN1251CAL	DIODE	1	
D3841,42	LN1251CAL	DIODE	2	
D3931-33	MA715	DIODE	3	
D3981	MA701A	DIODE	1	
D3983	MA701A	DIODE	1	
D3985	MA701A	DIODE	1	
IC1	M31020EAVP	IC	1	FOR VEP88234M BLANK ROM
ID1	VVVSI2978A		1	SOFTWARE
IC3041-43	MC10H125M	IC	3	
IC3044-46	TLCX125F	IC	3	
IC3047-49	74F125SJ	IC	3	
IC3161	M65501FP	IC	1	
IC3201	M65501FP	IC	1	
IC3241	M65501FP	IC	1	
IC3281	M65501FP	IC	1	
IC3321	M65501FP	IC	1	
IC3361	M65501FP	IC	1	
IC3401	M4128-6410VC	IC	1	BLANK ROM
ID3401	VVVSI3030B			SOFTWARE
IC3402	UPD42280G3	IC	1	
IC3421	M4128-6410VC	IC	1	BLANK ROM
ID3421	VVVSI3030B			SOFTWARE
IC3422	UPD42280G3	IC	1	
IC3441	M4128-6410VC	IC	1	BLANK ROM
ID3441	VVVSI3030B			SOFTWARE
IC3442	UPD42280G3	IC	1	
IC3461	M4128-6410VC	IC	1	BLANK ROM
ID3461	VVVSI3030B			SOFTWARE
IC3462	UPD42280G3	IC	1	
IC3481	M4128-6410VC	IC	1	BLANK ROM
ID3481	VVVSI3030B			SOFTWARE
IC3482	UPD42280G3	IC	1	
IC3501	M4128-6410VC	IC	1	BLANK ROM
ID3501	VVVSI3030B			SOFTWARE
IC3502	UPD42280G3	IC	1	
IC3521,22	MB81V4260S7	IC	2	
IC3523	EPF10K50VRC4	IC	1	
IC3524	VSI3031A	IC	1	
IC3525,26	MB81V4260S7	IC	2	
IC3527	S80726ANDP	IC	1	
IC3571,72	NVHC244F	IC	2	
IC3573	74ALS541SJ	IC	1	
IC3574	SN74LS244NS	IC	1	
IC3575	74ALS541SJ	IC	1	
IC3621	NVHC153F	IC	1	
IC3622,23	NVHC244F	IC	2	
IC3624,25	TVHT244F	IC	2	
IC3641	UPD42280G3	IC	1	
IC3642	M4128-6410VC	IC	1	BLANK ROM
ID3642	VVVSI3030B			SOFTWARE
IC3651	UPD42280G3	IC	1	
IC3652	M4128-6410VC	IC	1	BLANK ROM
ID3652	VVVSI3030B			SOFTWARE
IC3681	MC10H124M	IC	1	
IC3701	M4128-6410VC	IC	1	BLANK ROM
ID3701	VVVSI3030B			SOFTWARE
IC3702	NVHC244F	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3741	NVHC244F	IC	1	
IC3771	NVHC138F	IC	1	
IC3772	NVHC244F	IC	1	
IC3773,74	TVHT573F	IC	2	
IC3775	NVHC32F	IC	1	
IC3776,77	NVHC245F	IC	2	
IC3778	T74LCX245F	IC	1	
IC3779	NVHC32F	IC	1	
IC3780-83	NVHC245F	IC	4	
IC3784	NVHC32F	IC	1	
IC3785-88	NVHC245F	IC	4	
IC3789	NVHC32F	IC	1	
IC3790-93	NVHC245F	IC	4	
IC3801	NVHC08F	IC	1	
IC3802	IDT71321L55F	IC	1	
IC3803	NVHC00F	IC	1	
IC3804	TVHT244F	IC	1	
IC3811	IDT71321L55F	IC	1	
IC3821,22	SN74S1051NS	IC	2	
IC3823,24	74F541SJ	IC	2	
IC3825	74F245SJ	IC	1	
IC3841,42	SN74S1051NS	IC	2	
IC3843,44	74F541SJ	IC	2	
IC3845	74F245SJ	IC	1	
IC3846	74AC138SJ	IC	1	
IC3847	NVHC244F	IC	1	
IC3848	UPD71055GB	IC	1	
IC3850	74F04SJ	IC	1	
IC3851	74F32SJ	IC	1	
IC3881	MC10H125M	IC	1	
IC3882	NVHU04F	IC	1	
IC3883-85	T74LCX244F	IC	3	
IC3931-36	NJM2904M	IC	6	
IC3937-39	NJM2903M	IC	3	
IC3971	M4128-6410VC	IC	1	
IC3972,73	T74LCX245F	IC	2	
IC3983	LT1086CM	IC	1	
IS3524	VJS3096308	IC SOCKET	1	
L3931	VL00319K470	COIL 47UH	1	
L3981-83	VLF1151A132	COIL 1300UH	3	
P1	VJP4106A120L	CONNECTOR	1	FOR VEP88234M
P3001,02	VJP3454B096	CONNECTOR (MALE)	2	
P3571	VJP3125D008	CONNECTOR (MALE)	1	
P3741	VJS4106A120L	CONNECTOR	1	
QR3841,42	MUN2214	TRANSISTOR-RESISTOR	2	
R3001-31	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	31	
R3043-46	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R3051-54	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R3059-62	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R3065-88	ERJ6GEYG560	M.RESISTOR CH 1/10W 56	24	
R3089-00	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	12	
R3105	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3110	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3115	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3116-39	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	24	
R3140-49	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	10	
R3161-65	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R3166-70	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
R3171-74	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R3176	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3179,80	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	
R3181-95	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	15	
R3201-05	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R3206-10	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
R3211-14	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R3216	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3219,20	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	
R3221-35	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	15	
R3241-45	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R3246-50	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3251-54	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R3256	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3259,60	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	
R3261-75	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	15	
R3281-85	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R3286-90	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
R3291-94	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R3296	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3299,00	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	
R3301-15	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	15	
R3321-25	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R3326-30	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
R3331-34	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R3336	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3339,40	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	
R3341-55	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	15	
R3361-65	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R3366-70	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
R3371-74	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R3376	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3379,80	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	
R3381-95	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	15	
R3401	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3402	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3403	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3404,05	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R3421	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3422	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3423	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3424,25	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R3441	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3442	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3443	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3444,45	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R3461	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3462	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3463	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3464,65	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R3481	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3482	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3483	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3484,85	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R3501	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3502	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3503	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3504,05	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R3521-36	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	16	
R3538	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3539-41	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R3542	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3543	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3544-51	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	8	
R3552-67	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	16	
R3568	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3571	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3572	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3573-89	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	17	
R3590,91	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3592	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3593	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3594,95	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3596	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3598-00	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	3	
R3601,02	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3603-06	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R3607-10	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	4	
R3611	ERDS2TJ182	C.RESISTOR 1/4W 1.8K	1	
R3621-25	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
R3627-30	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R3631-34	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	4	
R3641	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3642	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3643	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3644,45	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R3646	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3651	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3652	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3653	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3654,55	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R3656	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R3661	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3681	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3682	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3683	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3684	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3685	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3686	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3687	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3688	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3689	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3690	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3691	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3692	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3693	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3694	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3695	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3696	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3709-16	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	8	
R3717	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3718	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3719,20	ERJ6GEYG203	M.RESISTOR CH 1/10W 20K	2	
R3721	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3722,23	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R3724	ERJ6GEYG203	M.RESISTOR CH 1/10W 20K	1	
R3725	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3726	ERJ6GEYG203	M.RESISTOR CH 1/10W 20K	1	
R3727	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3728,29	ERJ6GEYG203	M.RESISTOR CH 1/10W 20K	2	
R3730	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3731	ERJ6GEYG203	M.RESISTOR CH 1/10W 20K	1	
R3732	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3733	ERJ6GEYG203	M.RESISTOR CH 1/10W 20K	1	
R3734	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3735	ERJ6GEYG203	M.RESISTOR CH 1/10W 20K	1	
R3742	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3743	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3746	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3747,48	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3749,50	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	2	
R3751	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3752	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R3754	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3755-59	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	5	
R3760	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3761	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3762-64	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	3	
R3771-73	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	3	
R3774	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3775	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3777	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3779	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3780-92	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	13	
R3801-04	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3805-08	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	4	
R3809	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3811-14	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3821,22	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3823-33	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	11	
R3841,42	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3843-47	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R3848	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3849-52	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	4	
R3853-60	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	8	
R3861,62	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R3863	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R3864	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3865	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R3866	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3867	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3869,70	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3871	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R3872	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3873	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R3874	ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R3881,82	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3883-86	ERJ6GEYG560	M.RESISTOR CH 1/10W 56	4	
R3887	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R3888	ERJ6GEYJ431	M.RESISTOR CH 1/10W 430	1	
R3889,90	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R3892,93	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3894-96	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	3	
R3897-11	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	15	
R3913-18	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	6	
R3931-36	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	6	
R3937	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R3938	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3939	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R3940	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3941	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R3942	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3943	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R3944	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3945	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R3946	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3947	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R3948	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3949-54	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	6	
R3955-60	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	6	
R3961-63	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R3964-69	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	6	
R3971	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3972	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3973,74	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R3976	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3978	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3988	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	1	
R3989	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R3993	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
TG3401	EYF6CU	TEST POINT	1	
TG3521	EYF6CU	TEST POINT	1	
TG3741	EYF6CU	TEST POINT	1	
TP3401	EYF6CU	TEST POINT	1	
TP3421	EYF6CU	TEST POINT	1	
TP3441	EYF6CU	TEST POINT	1	
TP3461	EYF6CU	TEST POINT	1	
TP3481	EYF6CU	TEST POINT	1	
TP3501	EYF6CU	TEST POINT	1	
TP3522-24	EYF6CU	TEST POINT	3	
TP3539	EYF6CU	TEST POINT	1	
TP3543,44	EYF6CU	TEST POINT	2	
TP3548	EYF6CU	TEST POINT	1	
TP3557-59	EYF6CU	TEST POINT	3	
TP3714,15	EYF6CU	TEST POINT	2	
TP3742	EYF6CU	TEST POINT	1	
X3881	VSX0974	CRYSTAL OSCILLATOR	1	
X3882	VSX0970	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VMS6278	POST	2	FOR VEP88234M
	XYN3+K5	SCREW	2	FOR VEP88234M
	XWA3B	WASHER	2	FOR VEP88234M
	XNG3BS	NUT	2	FOR VEP88234M
■ E5	VEP83452A	F4 SDI MAIN P.C.BOARD	1	(RTL)
C1	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C6	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C7	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C8,C9	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C11	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C14	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C295-98	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C302	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C304-08	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C310,11	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C445	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C501-11	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	11	
C512	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C531-35	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C537	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C561-64	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C591-94	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C595	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C596-99	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C600,01	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C602,03	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	2	
C604,05	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C606	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C607	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C608	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C609	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C610-13	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	4	
C614,15	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C616,17	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C619-21	ECUX1C105ZFN	C.CAPACITOR CH 16V 1U	3	
C623-25	ECUX1H020CCN	C.CAPACITOR CH 50V 2P	3	
C626	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C641,42	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C644	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C645-47	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	3	
C648	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C649	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C650	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C651	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C652	ECUX1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C653	ECUX1H020CCN	C.CAPACITOR CH 50V 2P	1	
C654-56	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C657	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C664	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C751	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C752	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C753,54	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C755	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C756	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C757-61	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C801-04	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
IC1	SN74ALS244C	IC	1	
IC294	SN74AS244AN	IC	1	
IC297	SN74AS244AN	IC	1	
IC298	MC10H125M	IC	1	
IC299-02	74F244SJ	IC	4	
IC443	SN74ALS244C	IC	1	
IC501	CG21503-131	IC	1	
IC502	74F821SC	IC	1	
IC503	MC74HC74AF	IC	1	
IC531	M4128-6410VC	IC	1	BLANK ROM
ID531	VVVS13005A		1	SOFTWARE
IC532	UPD6456T611Y	IC	1	
IC534	UPD6456T611Y	IC	1	
IC561	GS9001-COM	IC	1	
IC591,92	GS9022-CPJ	IC	2	
IC593-95	74F821SC	IC	3	
IC596	AN7805F	IC	1	
IC641	GS9022-CPJ	IC	1	
IC642	74F821SC	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC643	AN7805F	IC	1	
IC751-53	74ALS541SJ	IC	3	
IC754	SN74S1051NS	IC	1	
IC755	74ALS245ASJ	IC	1	
IC756	SN74S1051NS	IC	1	
IC758,59	UPD71055GB	IC	2	
IC760	74F04SJ	IC	1	
IC801	M4128-6410VC	IC	1	BLANK ROM
ID801	VVVS13005A		1	SOFTWARE
L1	VLF1151A132	COIL	1	
L3-L5	VLF1151A132	COIL	3	
L7	VLF1151A132	COIL	1	
L591,92	VL00319K100	COIL 10UH	2	
L641	VL00319K100	COIL 10UH	1	
P1,P2	VJP3510	CONNECTOR (MALE)	2	
P3	VJP1231T	CONNECTOR (MALE) 4P	1	
P4	VJP3125D008	CONNECTOR (MALE)	1	
P5,P6	VJP3635A080	CONNECTOR (MALE)	2	
P591-93	VJP4131	CONNECTOR (MALE)	3	
P641	VJP4131	CONNECTOR (MALE)	1	
QR751	MUN2212	TRANSISTOR-RESISTOR	1	
R1	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R7-10	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R16	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R17	ERDS2TJ182	C.RESISTOR 1/4W 1.8K	1	
R235	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R294	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R295-02	ERJ6GEYG560	M.RESISTOR CH 1/10W 56	8	
R303-06	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	4	
R309	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R317-23	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	7	
R325,26	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R327,28	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	
R400	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R442	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R444-51	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	8	
R456-62	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	7	
R501-09	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	9	
R510-13	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R514-16	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R517-20	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R521-23	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R524	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R525-33	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	9	
R542,43	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R561,62	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R565,66	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R592	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R593-12	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	20	
R613,14	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	2	
R615,16	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R617,18	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	2	
R619,20	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	2	
R621,22	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	2	
R623,24	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R629,30	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R631-34	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	4	
R638-40	ERJ6RED620	M.RESISTOR CH 1/10W 62	3	
R641	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R642-51	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	10	
R652	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R655	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R656	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R657	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R658	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R659	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R660,61	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	2	
R662	ERJ6RED620	M.RESISTOR CH 1/10W 62	1	
R663	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	1	
R751-53	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	3	
R755-58	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R761-67	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	7	
R768-75	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	8	
R801,02	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R844	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R873-90	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	18	
R901-11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	11	
R912	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R914-16	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R921-32	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	12	
R971,72	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R985-95	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	11	
TG1	EYF6CU	TEST POINT	1	
TG3,G4	EYF6CU	TEST POINT	2	
TP331	EYF6CU	TEST POINT	1	
TP371,72	EYF6CU	TEST POINT	2	
TP411-13	EYF6CU	TEST POINT	3	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
	XYN26+C12	SCREW	8	
	XNG26EFXS	NUT	8	
■ E6	VEP83453A	F5 PB P.C.BOARD	1	(RTL)
■	VEP88234L	PB SUB P.C.BOARD	1	(RTL)FOR VEP83453A
■	VEP88235B	V BLK SUB P.C.BOARD	1	(RTL)FOR VEP83453A
C1	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	FOR VEP88235B
C1	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88234L
C2	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	FOR VEP88235B
C2	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88234L
C5	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C6	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C7	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C8	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C9	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C12	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C13	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C14	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C15	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C16	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C17	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C19	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C20	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C31,32	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	FOR VEP88235B
C33	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C40-42	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	FOR VEP88235B
C44	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C50	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C50	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	FOR VEP88235B

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C51	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C51	ECUX1H050CCV	C.CAPACITOR CH 50V 5P	1	FOR VEP88235B
C52	ECUX1H020CCV	C.CAPACITOR CH 50V 2P	1	FOR VEP88235B
C52	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C53	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C53	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	FOR VEP88235B
C54	ECUX1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C54	ECUX1H050CCV	C.CAPACITOR CH 50V 5P	1	FOR VEP88235B
C55	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C55	ECUX1H020CCV	C.CAPACITOR CH 50V 2P	1	FOR VEP88235B
C56	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C56	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	FOR VEP88235B
C57	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	FOR VEP88235B
C57	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C58	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	FOR VEP88235B
C58-60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C60	ECUX1H020CCV	C.CAPACITOR CH 50V 2P	1	FOR VEP88235B
C61	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C66,67	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	FOR VEP88235B
C68,69	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	FOR VEP88235B
C70	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	FOR VEP88235B
C73	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C74	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	FOR VEP88235B
C75	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C76	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	FOR VEP88235B
C80	ECCF1H680J	C.CAPACITOR 50V 68U	1	FOR VEP88235B
C100	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C100	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C101	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	FOR VEP88235B
C101,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C102	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	FOR VEP88235B
C103	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	FOR VEP88235B
C103	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C104	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	FOR VEP88235B
C104	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C105	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	FOR VEP88235B
C105,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C107	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C107	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C108	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	FOR VEP88235B
C109	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP88235B
C110	ECEV1EN3R3Q	E.CAPACITOR CH 25V 3.3U	1	FOR VEP88235B
C111	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	FOR VEP88235B
C112-14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	FOR VEP88235B
C130-39	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	FOR VEP88235B
C150,51	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C152	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C155	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C156-59	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	4	
C160-63	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C164,65	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C166-70	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C250-55	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C300-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	20	
C400	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C401	ECUX1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C402-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C413,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C416	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C418	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C450	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C451	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C452	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C453,54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C455	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C456,57	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C458	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C459	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C460-81	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	22	
C550-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C600-02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C650-65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	16	
C750-61	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	12	
C800-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C900	ECUX1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C901	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C902	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C903	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C905	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C906	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C907	ECUX1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C908	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C909	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C980-85	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
D1,D2	MA152WK	DIODE	2	FOR VEP88235B
D5,D6	MA152WK	DIODE	2	FOR VEP88235B
D450,51	M1MA152K	DIODE	2	
D550	LN1251CAL	DIODE	1	
D750,51	LN1251CAL	DIODE	2	
FL1	VLF0931	FILTER	1	
FL1	VLF1462	FILTER	1	FOR VEP88235B
FL2	VLF0931	FILTER	1	
FL3-L6	VLF0576	FILTER	4	
FL7	VLF0931	FILTER	1	
IC1	LT1086CM	IC	1	
IC1	M31020EAVP	IC	1	FOR VEP88234L
IC1	TLCX574F	IC	1	FOR VEP88235B
IC2	NJM78L09UA	IC	1	
IC2	TLCX574F	IC	1	FOR VEP88235B
IC3	NJM79L09UA	IC	1	
IC3	T74LCX244F	IC	1	FOR VEP88235B
IC4	NJM78L05UA	IC	1	
IC5	T74LCX244F	IC	1	FOR VEP88235B
IC5	T74VHCT244F	IC	1	
IC6	T203E3801AF1	IC	1	FOR VEP88235B
IC7,C8	T74VHC244F	IC	2	FOR VEP88235B
IC9	MC74HC125AF	IC	1	FOR VEP88235B
IC10	VSI3081	IC	1	FOR VEP88235B
IC30	MM74HC221AM	IC	1	FOR VEP88235B
IC31	MC74HC125AF	IC	1	FOR VEP88235B
IC32	NJM082BM	IC	1	FOR VEP88235B
IC33	NJM78L05UA	IC	1	FOR VEP88235B
IC40	EPF10K20TC-4	IC	1	FOR VEP88235B
IC41	MC14053BF	IC	1	FOR VEP88235B
IC42	LT1228CS8	IC	1	FOR VEP88235B
IC43	CXD1175AM	IC	1	FOR VEP88235B
IC45	TL7705CPSB	IC	1	FOR VEP88235B
IC50,51	TLCX574F	IC	2	
IC52	TLCX574F	IC	1	
IC54	TLCX574F	IC	1	
IC55	L7A1644	IC	1	
IC56	NJM78L05UA	IC	1	FOR VEP88235B
IC57	NJM79L05UA	IC	1	FOR VEP88235B
IC100,01	MN4707F	IC	2	
IC150	MN67373	IC	1	
IC154	MN67373	IC	1	
IC155	TCVHC257F	IC	1	
IC156,57	TVHT244F	IC	2	
IC158	MC10H124M	IC	1	
IC251	T74LCX244F	IC	1	
IC252	MB81V4260S7	IC	1	
IC253	L7A1645	IC	1	
IC300	MB81V4260S7	IC	1	
IC301	M65501FP	IC	1	
IC302	MB81V4260S7	IC	1	
IC303	M65501FP	IC	1	
IC403	MC10H125M	IC	1	
IC404	ISP2032-80LT	IC	1	BLANK ROM
ID404	VVVSI3032		1	SOFTWARE
IC405	T74LCX244F	IC	1	
IC409	NVHC244F	IC	1	
IC450	MC10H125M	IC	1	
IC451	74F244SJ	IC	1	
IC453	MC74HC125AF	IC	1	
IC455	NJM082BM	IC	1	
IC458	I1032E-70LT	IC	1	BLANK ROM

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
ID458	VVVSI3032		1	SOFTWARE
IC460	TVHT244F	IC	1	
IC461	NVHC244F	IC	1	
IC462	T74LCX244F	IC	1	
IC463	MC10H124M	IC	1	
IC466	NVHC244F	IC	1	
IC467	74F244SJ	IC	1	
IC474	NVHC244F	IC	1	
IC477	MC10H124M	IC	1	
IC488	SN74LS123NS	IC	1	
IC551	TLCX04F	IC	1	
IC600,01	TVHT244F	IC	2	
IC602	NVHC244F	IC	1	
IC651	SN74S1053NS	IC	1	
IC652	SN74S1051NS	IC	1	
IC656,57	74F244SJ	IC	2	
IC658	SN74ALS245A	IC	1	
IC660	NVHC32F	IC	1	
IC662	NVHC08F	IC	1	
IC666,67	IDT71321L55F	IC	2	
IC672	NVHC00F	IC	1	
IC673	NVHC138F	IC	1	
IC674	NVHC244F	IC	1	
IC676,77	TVHT573F	IC	2	
IC678	T74LCX245F	IC	1	
IC679	NVHC08F	IC	1	
IC750	SN74S1051NS	IC	1	
IC751	SN74S1053NS	IC	1	
IC752	SN74ALS245A	IC	1	
IC753,54	74F244SJ	IC	2	
IC755	UPD71055GB	IC	1	
IC756	ISP2032-80LT	IC	1	BLANK ROM
ID756	VVVSI3032		1	SOFTWARE
IC758	NVHC244F	IC	1	
IC800	UPD65868D022	IC	1	
IC900	MC10H125M	IC	1	
IC901	NVHC04FT	IC	1	
IC902	BH7086KV	IC	1	
IC903	TCVHC257F	IC	1	
IC980,81	D485505G25	IC	2	
IC982	I1032E-70LT	IC	1	BLANK ROM
ID982	VVVSI3032		1	SOFTWARE
IC983,84	T74LCX244F	IC	2	
IS10	VJS3109	IC SOCKET	1	FOR VEP88235B
L1,L2	VLQ0319K220	COIL 22UH	2	FOR VEP88235B
L5	VLQ0163J390	COIL 39UH	1	FOR VEP88235B
L6	VLQ0163J150	COIL 15UH	1	FOR VEP88235B
L7	VLQ0163J390	COIL 39UH	1	FOR VEP88235B
L8	VLQ0163J150	COIL 15UH	1	FOR VEP88235B
L9	VLQ0319K220	COIL 22UH	1	FOR VEP88235B
L11	VLQ0319K220	COIL 22UH	1	FOR VEP88235B
L450-52	VLQ0319K470	COIL 47UH	3	
L900	VLQ0319K100	COIL 10UH	1	
P1	VJP3510	CONNECTOR (MALE)	1	
P1	VJP4106A120L	CONNECTOR	1	FOR VEP88234L
P2	VJP3510	CONNECTOR (MALE)	1	
P8	VJP1248T	CONNECTOR (MALE) 8P	1	
P20	VJS4064N160	CONNECTOR	1	FOR VEP88235B
P550	VJS4106A120L	CONNECTOR	1	
P850	VJP4064N160C	CONNECTOR (MALE)	1	
Q1,Q2	2SB709A-R	TRANSISTOR	2	FOR VEP88235B
Q3	2SA1532-C	TRANSISTOR	1	FOR VEP88235B
QR750,51	MUN2213	TRANSISTOR-RESISTOR	2	
R1	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP88235B
R1	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R2	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP88235B
R2	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	1	
R4	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP88235B
R5	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP88235B
R6-R9	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R10	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R11	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP88235B
R11	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R12	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP88235B
R13	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP88235B
R20	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP88235B
R23	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP88235B
R30	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	FOR VEP88235B
R31-37	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	7	FOR VEP88235B
R40	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	FOR VEP88235B
R41	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	FOR VEP88235B
R42	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP88235B
R43	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP88235B
R44	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	FOR VEP88235B
R45, 46	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	FOR VEP88235B
R47	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	FOR VEP88235B
R48	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	FOR VEP88235B
R49	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP88235B
R50-59	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	10	
R60	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP88235B
R60	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R61	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP88235B
R61-64	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R65	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	FOR VEP88235B
R65	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R67	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP88235B
R70	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	FOR VEP88235B
R72	ERJ6RBD681	M.RESISTOR CH 1/10W 680	1	FOR VEP88235B
R73	ERJ6RBD361	M.RESISTOR CH 1/10W 360	1	FOR VEP88235B
R74	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R74	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	FOR VEP88235B
R75, 76	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R76	ERJ6RBD681	M.RESISTOR CH 1/10W 680	1	FOR VEP88235B
R77	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R77	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	FOR VEP88235B
R78	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP88235B
R78, 79	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R79	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	FOR VEP88235B
R80	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R80	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	FOR VEP88235B
R81	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R81	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP88235B
R82	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R82	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	FOR VEP88235B
R83	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP88235B
R83	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R84	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R84	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	FOR VEP88235B
R85	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	FOR VEP88235B
R85	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R86	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	FOR VEP88235B
R86	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R87	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	FOR VEP88235B
R87-89	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R89	ERJ6RBD271	M.RESISTOR CH 1/10W 270	1	FOR VEP88235B
R90	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R91	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	FOR VEP88235B
R92	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP88235B
R93	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	FOR VEP88235B
R94	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP88235B
R96	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	FOR VEP88235B
R99	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	FOR VEP88235B
R100, 01	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R110-13	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	FOR VEP88235B
R119	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP88235B
R150, 51	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R152-59	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
R160-64	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	5	
R165	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R166, 67	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R168-75	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
R176-80	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	5	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R181	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R182	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R184-86	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R187-97	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	11	
R198-10	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	13	
R211, 12	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	2	
R213, 14	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R250	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R251-61	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	11	
R262	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R263-66	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R267-77	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	11	
R278, 79	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R300-04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R305, 06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R307	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R308	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R309-14	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R315, 16	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R317	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R318-25	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	8	
R326-31	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R332, 33	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R334	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R335	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R336-41	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R342, 43	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R344-52	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	9	
R353	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R390	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R392	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R395-98	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R399, 00	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R402	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R403	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R404	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R405	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R406, 07	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R408	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R409-13	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	5	
R419	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R421	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R428, 29	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R433	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R435	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R437	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R439	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R441	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R442	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R450, 51	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R452	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R453	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R454	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R459	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R464	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R466	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R467	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R470	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R472	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R473	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R474	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R475, 76	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R477	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R478	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R479	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R480	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R481	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R482	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R483	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R484	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R486	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R487	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R488	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R489, 90	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R491	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R493-97	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	5	
R498	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R499	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R500-05	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	6	
R508	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R510-15	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	6	
R516	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R517-19	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R521	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R522-25	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R526-28	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	3	
R529-33	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	5	
R534	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R535-38	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R550-52	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R553	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R555	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R557	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R558	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R559	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R560	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R561-63	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R564	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R565	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R567-70	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R571,72	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R573	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R574	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R575	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R576	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R577,78	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R579	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R580	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R581,82	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R590-96	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	7	
R597-02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R603,04	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R605	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R606	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R607,08	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R609,10	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R611	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R612-25	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	14	
R626-41	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	16	
R650	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R651-53	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R654,55	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R656	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R657,58	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R659	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R660-73	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	14	
R674	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R675-80	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	6	
R681	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R682-93	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	12	
R694,95	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R696-10	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	15	
R711,12	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R713,14	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R715	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R750,51	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R752-55	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R756,57	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R758	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R760	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R762	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R763,64	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R765	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R766-71	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	6	
R772,73	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	2	
R774	ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R800-11	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	12	
R812,13	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R814-16	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R817-25	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	9	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R826,27	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R828	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R829	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R830,31	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R832	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R833,34	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R850-76	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	27	
R877	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R879	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R881	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R883-93	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	11	
R894,95	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R900,01	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R902	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R903	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R904	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R905	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R907	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R910	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R912	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R913-15	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R981	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R982-88	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	7	
TG50	EYF6CU	TEST POINT	1	
TG250	EYF6CU	TEST POINT	1	
TG401	EYF6CU	TEST POINT	1	
TP20-23	EYF6CU	TEST POINT	4	FOR VEP88235B
TP30	EYF6CU	TEST POINT	1	FOR VEP88235B
TP154	EYF6CU	TEST POINT	1	
TP305	EYF6CU	TEST POINT	1	
TP400	EYF6CU	TEST POINT	1	
TP450-54	EYF6CU	TEST POINT	5	
TP750,51	EYF6CU	TEST POINT	2	
TP900	EYF6CU	TEST POINT	1	
VR1	VRV0113B501	V.RESISTOR 500	1	FOR VEP88235B
VR2	VRV0113B102	V.RESISTOR 1K	1	FOR VEP88235B
X1	VSX0975	CRYSTAL OSCILLATOR	1	FOR VEP88235B
X2	VSX0973	CRYSTAL OSCILLATOR	1	FOR VEP88235B
X450	VSX0906	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
	XYN26+C12	SCREW	8	
	XNG26EFXS	NUT	8	
	VMS6278	POST	2	FOR VEP88234L
	XYN3+K5	SCREW	2	FOR VEP88234L
	XWA3B	WASHER	2	FOR VEP88234L
	XNG3BS	NUT	2	FOR VEP88234L
	VMX2020	P.C.BOARD POST	3	FOR VEP88235B
	XYN3+K6	SCREW	6	FOR VEP88235B
■ E7	VEP83454B	F6 VIDEO OUT P.C.BOARD	1	(RTL)
C3001-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C3014,15	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3016	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3017	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3018,19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3020,21	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3022	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3023	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3024	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3025	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3026,27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3028	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3029	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3030	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3031	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3032	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3033	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C3034	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3035	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3038-44	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3045	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3046-51	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3052	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3053	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3054	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3055	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3058	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3059-61	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3064-74	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C3076-81	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3083-89	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3096	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3097	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3098	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3099	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3100	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3101	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3102	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C3103	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3104	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3105	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3106,07	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C3108	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3109	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3110	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3111	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3112	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3113	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C3114-16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3130	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3134-36	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3141	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3142-45	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C3146-63	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	18	
C3175	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3176	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3178	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3181,82	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3184,85	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C3186	ECEV1EV100Q	E.CAPACITOR CH 25V 10U	1	
C3189	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3190,91	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3192	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3193	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3194	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3195,96	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3197	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3198	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3199	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C3200-02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3203	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3204	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C3205	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3206	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3207-12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3214	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3215-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3222	ECEV1HN010Q	E.CAPACITOR CH 50V 1U	1	
C3223	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3224-36	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C3237	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3238	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3239	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1	
C3240	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C3241	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C3242	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3243	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3244	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1	
C3245	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3246	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C3247-51	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3252	ECEV1HN010Q	E.CAPACITOR CH 50V 1U	1	
C3253	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3255,56	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C3257-62	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3263	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3264	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3265	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3266	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3267	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1	
C3268	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3269	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3270	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3271,72	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C3273	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3274	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3275	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3276	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3277	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3278,79	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3280	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C3281	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3282	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3283,84	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C3285	ECEV1HN010Q	E.CAPACITOR CH 50V 1U	1	
C3286,87	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3288	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C3289	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C3290	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3291	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3292	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3296	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3297	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C3298	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3299	ECEV1VAN2R2	E.CAPACITOR CH 35V 2.2U	1	
C3300,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3302	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3303,04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3305	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1	
C3306	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3307	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3308	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3309	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3310	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3311	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3312	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3313,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3315	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3316	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3317	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C3318	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1	
C3319,20	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3323-29	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3332-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3339	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C3340-49	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3351-56	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3358-71	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	14	
C3409	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3410	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1	
C3411	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3412	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3413-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3418	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1	
C3419	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C3420-22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3425-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3428	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3431	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3432	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3433	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3434	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3435	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3436,37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3438	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3439	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3440,41	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C3442	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3443	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3444,45	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3446,47	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3448-51	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3455	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3458	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C3459	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3460	ECUX1C104KBN	C.CAPACITOR CH 16V 0.1U	1	
C3461	ECST1CY335Z	T.CAPACITOR CH 16V 3.3U	1	
C3462	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3463	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3464	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3465	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3466	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3467	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3468	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3469	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3480-83	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3485-89	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3491,92	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3500	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C3501-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3504,05	ECEV0JN470Q	E.CAPACITOR CH6.3V 47U	2	
C3506	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3507-10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3511	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3512	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3513	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3514,15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
D3001,02	MA152K	DIODE	2	
D3003	MA142WK	DIODE	1	
D3004	MA142K	DIODE	1	
D3005	MA335	DIODE	1	
D3006	MA142K	DIODE	1	
D3007	MA335	DIODE	1	
D3010	MA28W	DIODE	1	
FL3013	VLF1482	FILTER	1	
IC3001	SN74AS240ASL	IC	1	
IC3002-08	TVHT244FT	IC	7	
IC3009-11	NVHC244F	IC	3	
IC3012,13	AD9300KP	IC	2	
IC3014	TC7S04F	IC	1	
IC3015	AD9300KP	IC	1	
IC3016	AD828AR	IC	1	
IC3017	ADV7171KS	IC	1	
IC3018	MC10H125M	IC	1	
IC3019	TLCX574F	IC	1	
IC3020-22	NVHC574FT	IC	3	
IC3025	NVHC244F	IC	1	
IC3026,27	TVHT244FT	IC	2	
IC3028	MC10H124M	IC	1	
IC3029,30	TVHT541FT	IC	2	
IC3031,32	NVHC244F	IC	2	
IC3034-38	NVHC244F	IC	5	
IC3041,42	MN47V78SP	IC	2	
IC3049	SN74AS244AN	IC	1	
IC3050	M4128-6410VC	IC	1	BLANK ROM
ID3050	VS13085B		1	SOFTWARE
IC3057	SN74ALS04BSL	IC	1	
IC3061	TVHT574FT	IC	1	
IC3063-65	TVHT574FT	IC	3	
IC3071	NVHC244F	IC	1	
IC3072	VY06629	IC	1	
IC3073	M4128-6410VC	IC	1	BLANK ROM
ID3073	VS13085B		1	SOFTWARE

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3074	UPD42280G3	IC	1	
IC3075	UPD485506G25	IC	1	
IC3076	L7A1519	IC	1	
IC3078-80	TVHT244FT	IC	3	
IC3081,82	TC74ACT374F	IC	2	
IC3087	NJM78L09UA	IC	1	
IC3088	NJM78L05UA	IC	1	
IC3089	NJM79L05UA	IC	1	
IC3090	AN78N05	IC	1	
IC3091	AN78N10	IC	1	
IC3092	AN79N10	IC	1	
IC3093-95	TVHT244FT	IC	3	
IC3096	TC74ACT374F	IC	1	
IC3098	TC74ACT374F	IC	1	
IC3099	MC74HC125AF	IC	1	
IC3100	74F08SJ	IC	1	
IC3101	SN74AS74ANS	IC	1	
IC3102	TVHT244FT	IC	1	
IC3103	TVHC240FT	IC	1	
IC3104	NJM082BM	IC	1	
IC3105	UPD65650J203	IC	1	
IC3106	SN74LS221NS	IC	1	
IC3107	MC74HC04AF	IC	1	
IC3108	MC74HC257F	IC	1	
IC3109	AN91A12S	IC	1	
IC3110	NE521D	IC	1	
IC3111-14	MM74HC221AM	IC	4	
IC3115	MC74HC04AF	IC	1	
IC3116	NJM082BM	IC	1	
IC3117,18	TC7SH00FU	IC	2	
IC3119	SN74LS123NS	IC	1	
IC3120	NE521D	IC	1	
IC3121	NJM084M	IC	1	
IC3122	MC74HC4053F	IC	1	
IC3124	MC74HC4053F	IC	1	
IC3126	TC7SH08FU	IC	1	
IC3127	TC7SH00FU	IC	1	
IC3129	NJM084M	IC	1	
IC3130-32	UPD485506G25	IC	3	
IC3134,35	SN74S1051NS	IC	2	
IC3136	74ALS541SJ	IC	1	
IC3137	74ALS245ASJ	IC	1	
IC3138,39	74ALS541SJ	IC	2	
IC3140	MACH211S10VC	IC	1	
IC3141	UPD71055GB	IC	1	
IC3142,43	NVHC244F	IC	2	
IC3144	UPD71055GB	IC	1	
IC3145	M4128-6410VC	IC	1	BLANK ROM
ID3145	VS13085B		1	SOFTWARE
IC3146	TVHT244FT	IC	1	
IC3148	NVHC244F	IC	1	
IC3149	TVHT244FT	IC	1	
IC3150	NVHC244F	IC	1	
IC3152,53	NVHC244F	IC	2	
IC3154	MN47V78SP	IC	1	
IC3156	MN47V78SP	IC	1	
IC3157,58	NVHC244F	IC	2	
IC3159	T160G70-1601	IC	1	
IC3160	M4128-6410VC	IC	1	BLANK ROM
ID3160	VS13085B		1	SOFTWARE
IC3161,62	SN74S1051NS	IC	2	
IC3163	M4128-6410VC	IC	1	BLANK ROM
ID3163	VS13085B		1	SOFTWARE
IC3170,71	MM74HC221AM	IC	2	
IC3172	MC74HC157AF	IC	1	
IC3173,74	TC7SH08FU	IC	2	
IC3175	SN74LS221NS	IC	1	
IC3176	SN74AS240ASL	IC	1	
IC3177,78	MC74HC4053F	IC	2	
IC3179	NJM79L09UA	IC	1	
IC3180-82	MC74HC574AF	IC	3	
IC3183	DAC10GS	IC	1	
IC3184	NJM082BM	IC	1	
IC3185	MC14053BF	IC	1	
IC3186	ADV7171KS	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3187	AD9300KP	IC	1	
IC3189	UPD485506G25	IC	1	
IC3190	UPD65013F101	IC	1	
IC3191,92	UG10358B	IC	2	
IC3193	M4128-6410VC	IC	1	BLANK ROM
ID3193	VSI3085B		1	SOFTWARE
IC3194	UG10358B	IC	1	
IC3195	NVHC244F	IC	1	
IC3197	UPD65042F024	IC	1	
IC3199	S80745AND9T1	IC	1	
IC3200	NE521D	IC	1	
IC3201	AN78N05	IC	1	
L3001	VL00163J180	COIL 18UH	1	
L3002	VL00163J5R6	COIL 5.6UH	1	
L3003,04	VL00163J220	COIL 22UH	2	
L3008	VLP0133	COIL	1	
L3009	VL00163J220	COIL 22UH	1	
L3010	VL00319K470	COIL 47UH	1	
L3011	VL00319K680	COIL 68UH	1	
L3012	VL00319K221	COIL 220UH	1	
L3013	VL00319K101	COIL 100UH	1	
L3014,15	VL00319K470	COIL 47UH	2	
L3016	VL00163J221	COIL 220UH	1	
L3026	VL00319K390	COIL 39UH	1	
L3027,28	VL00163J220	COIL 22UH	2	
L3030-37	VLP0133	COIL	8	
L3038	VL00163J2R7	COIL 2.7UH	1	
L3039	VL00163J5R6	COIL 5.6UH	1	
P3001,02	VJP3454B096	CONNECTOR (MALE)	2	
P3003	VJP3515A080	CONNECTOR (MALE)	1	
P3004	VJP3515A052	CONNECTOR (MALE)	1	
P3005	VJP3125D008	CONNECTOR (MALE)	1	
Q3001,02	MSD601-R	TRANSISTOR	2	
Q3003	MSB709-R	TRANSISTOR	1	
Q3004,05	2SK608-R	TRANSISTOR	2	
Q3006	2SB709A-R	TRANSISTOR	1	
Q3007,08	2SK608-R	TRANSISTOR	2	
Q3010	UN2212	TRANSISTOR-RESISTOR	1	
Q3011	UN2213	TRANSISTOR-RESISTOR	1	
Q3013	2SK1059-Z	TRANSISTOR	1	
Q3014	HAT1026R-EL	TRANSISTOR	1	
R3001-05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	5	
R3006-23	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	18	
R3025-31	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	7	
R3032-34	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R3035	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3038,39	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3040-57	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	18	
R3058,59	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3060	ERJ3GEYJ270	M.RESISTOR CH 1/16W 27	1	
R3061	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3062	ERJ3GEYJ270	M.RESISTOR CH 1/16W 27	1	
R3063-69	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	7	
R3070	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3071	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3072	ERJ3GEYJ511	M.RESISTOR CH 1/16W 510	1	
R3073	ERJ6RBD152	M.RESISTOR CH 1/10W 1.5K	1	
R3074	ERJ6RED560	M.RESISTOR CH 1/10W 56	1	
R3075	ERJ6RBD681	M.RESISTOR CH 1/10W 680	1	
R3076	ERJ6RBD152	M.RESISTOR CH 1/10W 1.5K	1	
R3077	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R3079	ERJ6RBD151	M.RESISTOR CH 1/10W 150	1	
R3080	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R3082	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R3084	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R3085	ERJ6RBD151	M.RESISTOR CH 1/10W 150	1	
R3086	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3087	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R3088	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3089-92	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R3093-00	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	8	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3109	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3110,11	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3114,15	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3118	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3119	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3120	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3121	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3122	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3123	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3124	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3125,26	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R3127	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3129-31	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3132	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R3133	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3134,35	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R3136	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3137-41	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	5	
R3142	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3144-53	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	10	
R3154	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3155,56	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R3167-70	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	4	
R3171,72	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3173,74	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R3183,84	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3185-91	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	7	
R3192	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3193-99	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	7	
R3203	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3204	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1	
R3205,06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3207	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1	
R3208,09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3211	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3212-15	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3240-51	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	12	
R3252	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3253-68	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	16	
R3269-89	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	21	
R3308	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3309	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3310-13	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R3315	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3316	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3318	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3319	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3320	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3321	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3322	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3323	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3324	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3326	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3327	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3328-31	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R3337,38	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3341,42	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3343	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3344	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3345	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3346	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3347	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3348	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3349	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3350	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3351	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3352,53	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3354,55	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3356	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3357	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3358	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3359	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3360	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3361	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3362,63	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3364	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R3365	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3366	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3367	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3368	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R3369	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3370	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R3371	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3372, 73	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R3374-77	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	4	
R3378	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3379	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R3380	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R3381	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3382-84	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	3	
R3389	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3393, 94	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R3395, 96	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R3397	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3398	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3399	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3400	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3401	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3402	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3403	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3404	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3407	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3408	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3409	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3410	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R3411	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3412	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3414	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3415	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3416	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3417, 18	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R3419	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3420	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3421	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3422, 23	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3424, 25	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3426, 27	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3429	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3430	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3431	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3432-34	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3435	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3436	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3437, 38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3439-43	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R3444-49	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R3451	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3452	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3454	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3455	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3456, 57	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3459	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3462	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3465-67	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R3468-89	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	22	
R3490-92	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R3524	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3525	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3526	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3527	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3528	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3529	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3530	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3531	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3532, 33	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R3534, 35	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R3536	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3537, 38	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3541	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3544, 45	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3546, 47	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R3548	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3549	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3551	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3552	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3553	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R3554	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3556	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3557	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3558	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3559, 60	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R3562	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3564	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3565, 66	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	2	
R3567	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3568	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3569	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3572-74	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3576	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3577	ERJ6RBD101	M.RESISTOR CH 1/10W 100	1	
R3578	ERJ6RED510	M.RESISTOR CH 1/10W 51	1	
R3579, 80	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3584	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3586	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3587	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R3588	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3589	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3590	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3591	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3592	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3594, 95	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	2	
R3597, 98	ERJ6RED750	M.RESISTOR CH 1/10W 75	2	
R3599	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3600	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R3601	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3603	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3604, 05	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3620-24	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	5	
R3625	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3626	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3628	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3630, 31	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3632	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3636, 37	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3638, 39	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3641	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3643	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3645	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3647, 48	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R3649	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3650	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3651	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3652	ERJ6RBD331	M.RESISTOR CH 1/10W 330	1	
R3653, 54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3658, 59	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3660, 61	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3662, 63	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R3670	ERJ6RBD681	M.RESISTOR CH 1/10W 680	1	
R3671	ERJ6RBD271	M.RESISTOR CH 1/10W 270	1	
R3700	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TG3001-03	EYF6CU	TEST POINT	3	
TP3001-13	EYF6CU	TEST POINT	13	
TP3015	EYF6CU	TEST POINT	1	
VC3001, 02	VCV0050	TRIMMER	2	
VR3001	VRV0113B102	V.RESISTOR 1K	1	
VR3002	VRV0161B201	V.RESISTOR 200	1	
VR3004	VRV0161B502	V.RESISTOR 5K	1	
VR3005	VRV0113B202	V.RESISTOR 2K	1	
VR3006	VRV0113B503	V.RESISTOR 50K	1	
VR3007	VRV0113B103	V.RESISTOR 10K	1	
VR3011	VRV0113B202	V.RESISTOR 2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
VR3012	VRV0113B503	V.RESISTOR 50K	1	
VR3013	VRV0113B103	V.RESISTOR 10K	1	
VR3014	VRV0161B502	V.RESISTOR 5K	1	
VR3015,16	VRV0161B203	V.RESISTOR 20K	2	
VR3019	VRV0161B201	V.RESISTOR 200	1	
VR3020,21	VRV0113B102	V.RESISTOR 1K	2	
VR3025	VRV0161B202	V.RESISTOR 2K	1	
X3001	VSX0788	CRYSTAL OSCILLATOR	1	
X3002	VSX0567A	CRYSTAL OSCILLATOR	1	
X3003	VSX0081	CRYSTAL OSCILLATOR	1	
X3004	VSX0363	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E8	VEP84326C	F7 A PROCESS P.C.BOARD	1	(RTL)
C1	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C2	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3,C4	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C5	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6,C7	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C8	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C10	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C15,16	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C20-31	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	12	
C32	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C33-35	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C110-21	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	12	
C122	ECKF1H182KB	C.CAPACITOR 50V 1800P	1	
C190-94	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	5	
C220,21	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C222,23	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C224,25	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C228,29	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C231	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C232-34	ECEV1HV0R1Q	E.CAPACITOR CH 50V 0.1U	3	
C235	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C236	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C237	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C238	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C239,40	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	2	
C340-44	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	5	
C345-47	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	3	
C430	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C434	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C435	ECUX1H122KBN	C.CAPACITOR CH 50V 1200P	1	
C438	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C439,40	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C442-45	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C447-49	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C490	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C491	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C492	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C493-01	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	9	
C530	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C531	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C532,33	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C534	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C535,36	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C538-41	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C590	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C591	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C592	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C593-96	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C598-01	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C651-56	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	6	
C657	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C658	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C659	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C837	ECEV1HN4R7Q	E.CAPACITOR CH 50V 4.7U	1	
C838	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C839	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C840-42	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C843	ECEV1HN4R7Q	E.CAPACITOR CH 50V 4.7U	1	
C887	ECEV1HN4R7Q	E.CAPACITOR CH 50V 4.7U	1	
C888	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C889	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C890	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C891	ECEV1HN4R7Q	E.CAPACITOR CH 50V 4.7U	1	
C920-27	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	8	
C970	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C971	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C972	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C973,74	ECUX1H221KBN	C.CAPACITOR CH 50V 220P	2	
FL1	VLF0576	FILTER	1	
FL431	VLF0941C223	FILTER	1	
FL490	VLF0941C223	FILTER	1	
IC15	MC10H125M	IC	1	
IC16	MC74HC541AF	IC	1	
IC17	MC74HC574AF	IC	1	
IC18	MC74HC541AF	IC	1	
IC19	MC74HC153F	IC	1	
IC20	T74HCT541AF	IC	1	
IC21	MC74HC08AF	IC	1	
IC22	TVHT244F	IC	1	
IC23	MC74HC74AF	IC	1	
IC25,26	MC74HC541AF	IC	2	
IC27	MC10H124M	IC	1	
IC110,11	SN74S1051NS	IC	2	
IC112	74F541SJ	IC	1	
IC113	74F245SJ	IC	1	
IC114,15	74F541SJ	IC	2	
IC116,17	74AC138SJ	IC	2	
IC118,19	UPD71055GB	IC	2	
IC120	74F32SJ	IC	1	
IC121	74AC04SJ	IC	1	
IC190	MC74HC540AF	IC	1	
IC191-93	MC74HC541AF	IC	3	
IC194	MC74HC04AF	IC	1	
IC220	74AC04SJ	IC	1	
IC221	MC74HC74AF	IC	1	
IC224,25	NJM78L05UA	IC	2	
IC226,27	MC4044M	IC	2	
IC229	NJM319M	IC	1	
IC340	EPF10K20TC-4	IC	1	
IC341	S80726ANDP	IC	1	
IC342	VS12998A	IC	1	
IC343,44	UPD42280G3	IC	2	
IC430	XC62FP3302P	IC	1	
IC434	M5256DVP10VL	IC	1	
IC435	UPD65845G068	IC	1	
IC436	M5256DVP10VL	IC	1	
IC490	XC62FP3302P	IC	1	
IC491	M5256DVP10VL	IC	1	
IC492	UPD65845G068	IC	1	
IC493	M5256DVP10VL	IC	1	
IC530	MC74HC157AF	IC	1	
IC531	AD1893JST	IC	1	
IC533	T16GH7AF1216	IC	1	
IC534	K6256DLG7L	IC	1	
IC535	MC74HC74AF	IC	1	
IC536	MC74HC157AF	IC	1	
IC590,91	MC74HC157AF	IC	2	
IC592	AD1893JST	IC	1	
IC594	T16GH7AF1216	IC	1	
IC595	K6256DLG7L	IC	1	
IC596	MC74HC157AF	IC	1	
IC651	EPF10K20TC-4	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC652	M5M417800DJ6	IC	1	
IC653	VSI3000B	IC	1	
IC654	S80726ANDP	IC	1	
IC820	74AC04SJ	IC	1	
IC821	MC74HC08AF	IC	1	
IC822	MC74HC74AF	IC	1	
IC826	SN75158P	IC	1	
IC873	SN75158P	IC	1	
IC874	MC74HC74AF	IC	1	
IC920	MC74HC08AF	IC	1	
IC921	MB87D136APFV	IC	1	
IC970	TL7705CPSB	IC	1	
IS342	VJS3096308	IC SOCKET	1	
IS653	VJS3096308	IC SOCKET	1	
L1,L2	VLP0133	COIL	2	
P1,P2	VJP3454B096	CONNECTOR (MALE)	2	
R15	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R17,18	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R20	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R21	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R22	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R23-27	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
R29-36	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	8	
R37-39	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	3	
R41	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R43-50	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	8	
R51	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R55	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R56	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R57	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R60,61	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R62-64	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	3	
R65	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R67-73	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	7	
R74	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R76-83	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R84,85	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R86	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R92-94	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R96-00	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
R103	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R104-06	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R107-09	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R110-32	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	23	
R133-36	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	4	
R137-40	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	4	
R141-46	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	6	
R147-50	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	4	
R151-55	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	5	
R156	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R157	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R158	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R159	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R161-64	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R165	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R190	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R193-96	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	4	
R199	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R220,21	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R222	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R223	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R224,25	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R226,27	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R228,29	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R232,33	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R236	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R237	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R239	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R240	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R241	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R242	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R243	ERJ6GEYG682	M.REISITOR CH 1/10W 6.8K	1	
R244	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R245	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R246	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R322,23	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R340,41	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R342-45	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R348-50	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R351-56	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	6	
R357	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R395	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R397	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R399	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R401	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R431	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R434	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R437-39	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R446	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R450	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R452	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R453-56	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R458	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R459,60	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R462	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R492-94	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R495	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R496-98	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R500,01	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R503,04	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R531	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R532	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R533	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R534	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R536	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R537	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R538,39	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R540-43	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R544	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R546	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R548	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R550	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R554	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R555,56	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R557	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R558	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R560	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R561	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R564	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R566-73	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R590	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R591	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R593	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R595	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R597	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R599	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R600	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R601	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R602	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R603	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R606	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R608	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R613	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R614,15	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R616	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R617	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R619	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R620	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R622-25	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	4	
R629-36	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R655	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R658	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R660	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R662	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R664	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R668-71	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R672-75	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R676-83	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R684-87	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R690	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R691-95	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	5	
R696, 97	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R700	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R702-04	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R721	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R723-26	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R728	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R803, 04	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R842	ERJ6RED560	M.RESISTOR CH 1/10W 56	1	
R843	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R847	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R848	ERJ6RED560	M.RESISTOR CH 1/10W 56	1	
R849	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R894	ERJ6GEYG560	M.RESISTOR CH 1/10W 56	1	
R898	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R899	ERJ6GEYG560	M.RESISTOR CH 1/10W 56	1	
R900	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R920, 21	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R923, 24	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R928	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R930	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R932	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R933, 34	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R941, 42	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R948	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R949	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R951	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R952-55	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R970	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R972	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
T821	VLT0890	TRANSFORMER	1	
T871	VLT0890	TRANSFORMER	1	
TG1-G6	VJR0646	TEST POINT	6	
TG260	VJR0646	TEST POINT	1	
TP190, 91	VJR0646	TEST POINT	2	
TP193, 94	VJR0646	TEST POINT	2	
TP220-23	VJR0646	TEST POINT	4	
TP340-49	EYF6CU	TEST POINT	10	
X220	VSX0967	CRYSTAL OSCILLATOR	1	
X221	VSX0968	CRYSTAL OSCILLATOR	1	
X530	VSX0519	CRYSTAL OSCILLATOR	1	
X590	VSX0519	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E9	VEP84301C	F8 A AD/DA P.C.BOARD	1	(RTL)
C4001, 02	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4004	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4005	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4006	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4007	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4041, 42	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4044, 45	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4046, 47	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4101, 02	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4104	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4105	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4106	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4107	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4141, 42	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4144, 45	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4146, 47	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4201, 02	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4203	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4225	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4251, 52	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4253	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4275	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4301	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4302	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4303	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4304	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4305	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4306	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4307	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4308	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4309	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4310	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4311-13	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C4314	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4315	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4316	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4317, 18	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	2	
C4319, 20	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4321, 22	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	2	
C4323, 24	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4325	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4351	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4352	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4353	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4354	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4355	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4356	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4357	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4358	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4359	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4360	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4361-63	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C4364	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4365	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4366	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4367, 68	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	2	
C4369, 70	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4371, 72	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	2	
C4373, 74	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4375	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4401	ECHU1C472G	P.CAPACITOR 16V 4700P	1	
C4402, 03	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4404	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4405, 06	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4407, 08	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4409, 10	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4411	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4412	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C4413	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4414, 15	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C4416	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C4417	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4418	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4419, 20	ECEA1CGE221	E.CAPACITOR 16V 220U	2	
C4421	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4422	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4423	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4424	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4425, 26	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	2	
C4427, 28	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4429, 30	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4476	ECHU1C472G	P.CAPACITOR 16V 4700P	1	
C4477	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4478, 79	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4480	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C4481	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4482	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4483	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4484,85	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C4486	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4487	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4488,89	ECEA1CGE221	E.CAPACITOR 16V 220U	2	
C4490,91	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	2	
C4492,93	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4494,95	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	2	
C4496,97	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4551	ECHU1C472G	P.CAPACITOR 16V 4700P	1	
C4552,53	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4554	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4555,56	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4557,58	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4559,60	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4561	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4562	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C4563	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4564,65	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C4566	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C4567	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4568	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4569,70	ECEA1CGE221	E.CAPACITOR 16V 220U	2	
C4571	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4572	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4573	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4574	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4575,76	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	2	
C4577,78	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4579,80	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4626	ECHU1C472G	P.CAPACITOR 16V 4700P	1	
C4627	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4628,29	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4630	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C4631	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4632	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C4633	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4634,35	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C4636	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4637	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4638,39	ECEA1CGE221	E.CAPACITOR 16V 220U	2	
C4640,41	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	2	
C4642,43	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4644,45	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	2	
C4646,47	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4701-04	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C4705	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4706-10	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C4711	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4712-14	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C4715-18	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	4	
C4720	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4721	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4722	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4723,24	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4725	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4726	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4727	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4728	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4729,30	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	2	
C4731,32	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	2	
C4733-36	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C4737,38	ECHU1C472G	P.CAPACITOR 16V 4700P	2	
C4739,40	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	2	
C4745	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C4751	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4752	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4754,55	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4756	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C4757	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4758	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4759,60	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4761,62	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4763	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C4764	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4765,66	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4767-70	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	4	
C4771,72	ECEA1CGE221	E.CAPACITOR 16V 220U	2	
C4773	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4774	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4775,76	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	2	
C4777	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4778	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4779,80	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4831	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C4832	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4833-35	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C4836,37	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4838	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C4839	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4840	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C4841	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4842-45	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	4	
C4846,47	ECEA1CGE221	E.CAPACITOR 16V 220U	2	
C4848	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4849	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4850	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4851	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4852,53	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	2	
C4854,55	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4901,02	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4903,04	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	2	
C4905	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4906	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4907	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4908	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4931	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4932	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4933-36	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C4937-39	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C4940	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
D4401,02	MA157	DIODE	2	
D4476,77	MA157	DIODE	2	
D4551,52	MA157	DIODE	2	
D4626,27	MA157	DIODE	2	
D4751	MA157	DIODE	1	
D4752,53	MA152WK	DIODE	2	
D4754,55	MA157	DIODE	2	
D4831,32	MA157	DIODE	2	
FL4931	VLF0941C223	FILTER	1	
IC4003	NJM79L09UA	IC	1	
IC4004	NJM78L09UA	IC	1	
IC4043	NJM78L09UA	IC	1	
IC4044	NJM79L09UA	IC	1	
IC4103	NJM79L09UA	IC	1	
IC4104	NJM78L09UA	IC	1	
IC4143	NJM78L09UA	IC	1	
IC4144	NJM79L09UA	IC	1	
IC4201	MC74HC541AF	IC	1	
IC4202	NJM78L05UA	IC	1	
IC4251	MC74HC541AF	IC	1	
IC4252	NJM78L05UA	IC	1	
IC4301	NJM78L05UA	IC	1	
IC4302	AK4320VM	IC	1	
IC4303,04	NJM4580ED	IC	2	
IC4305	MC74HC157AF	IC	1	
IC4306	TC7W74F	IC	1	
IC4307,08	TC4W53F	IC	2	
IC4351	NJM78L05UA	IC	1	
IC4352	AK4320VM	IC	1	
IC4353,54	NJM4580ED	IC	2	
IC4355	MC74HC157AF	IC	1	
IC4356	TC7W74F	IC	1	
IC4357,58	TC4W53F	IC	2	
IC4401	NJM4580ED	IC	1	
IC4402	NJM79L05UA	IC	1	
IC4403	NJM78L05UA	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC4404	NJM4580ED	IC	1	
IC4405	NJM2043MD	IC	1	
IC4406	MC14052BF	IC	1	
IC4407,08	AQV212SX	IC	2	
IC4476,77	NJM4580ED	IC	2	
IC4478	NJM2043MD	IC	1	
IC4479	MC14052BF	IC	1	
IC4480,81	AQV212SX	IC	2	
IC4551	NJM4580ED	IC	1	
IC4552	NJM79L05UA	IC	1	
IC4553	NJM78L05UA	IC	1	
IC4554	NJM4580ED	IC	1	
IC4555	NJM2043MD	IC	1	
IC4556	MC14052BF	IC	1	
IC4557,58	AQV212SX	IC	2	
IC4626,27	NJM4580ED	IC	2	
IC4628	NJM2043MD	IC	1	
IC4629	MC14052BF	IC	1	
IC4630,31	AQV212SX	IC	2	
IC4701	NJM78L05UA	IC	1	
IC4702	AK4320VM	IC	1	
IC4703,04	NJM4580ED	IC	2	
IC4707	NJM78L09UA	IC	1	
IC4708,09	NJM79L09UA	IC	2	
IC4710	NJM78L09UA	IC	1	
IC4711	MC74HC541AF	IC	1	
IC4712,13	TC4W53F	IC	2	
IC4751,52	NJM4580ED	IC	2	
IC4753	NJM2043MD	IC	1	
IC4754	AD7945BR	IC	1	
IC4755	MC14053BF	IC	1	
IC4756	MC14052BF	IC	1	
IC4757,58	AQV212SX	IC	2	
IC4831,32	NJM4580ED	IC	2	
IC4833	NJM2043MD	IC	1	
IC4834	AD7945BR	IC	1	
IC4835	MC14053BF	IC	1	
IC4836	MC14052BF	IC	1	
IC4837,38	AQV212SX	IC	2	
IC4901	NJM4556AM	IC	1	
IC4931,32	SN74S1051NS	IC	2	
IC4933	74F245SJ	IC	1	
IC4934	74F541SJ	IC	1	
IC4935	74AC139SJ	IC	1	
IC4936	74F11SJ	IC	1	
IC4937	TC7S04F	IC	1	
IC4938-40	UPD71055GB	IC	3	
L4301	VLQ0163J100	COIL 10UH	1	
L4351	VLQ0163J100	COIL 10UH	1	
L4701	VLQ0163J100	COIL 10UH	1	
P4001,02	VJP3454B096	CONNECTOR (MALE)	2	
Q4301,02	2SK198-R	TRANSISTOR	2	
Q4351,52	2SK198-R	TRANSISTOR	2	
Q4401	2SD1328	TRANSISTOR	1	
Q4402	2SB1322A-R	TRANSISTOR	1	
Q4403	2SD1994A-R	TRANSISTOR	1	
Q4404	2SB1322A-R	TRANSISTOR	1	
Q4405	2SD1994A-R	TRANSISTOR	1	
Q4406	2SB710A-R	TRANSISTOR	1	
Q4407	2SD602A-R	TRANSISTOR	1	
Q4476	2SD1328	TRANSISTOR	1	
Q4477	2SB1322A-R	TRANSISTOR	1	
Q4478	2SD1994A-R	TRANSISTOR	1	
Q4479	2SB1322A-R	TRANSISTOR	1	
Q4480	2SD1994A-R	TRANSISTOR	1	
Q4481	2SB710A-R	TRANSISTOR	1	
Q4482	2SD602A-R	TRANSISTOR	1	
Q4551	2SD1328	TRANSISTOR	1	
Q4552	2SB1322A-R	TRANSISTOR	1	
Q4553	2SD1994A-R	TRANSISTOR	1	
Q4554	2SB1322A-R	TRANSISTOR	1	
Q4555	2SD1994A-R	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q4556	2SB710A-R	TRANSISTOR	1	
Q4557	2SD602A-R	TRANSISTOR	1	
Q4626	2SD1328	TRANSISTOR	1	
Q4627	2SB1322A-R	TRANSISTOR	1	
Q4628	2SD1994A-R	TRANSISTOR	1	
Q4629	2SB1322A-R	TRANSISTOR	1	
Q4630	2SD1994A-R	TRANSISTOR	1	
Q4631	2SB710A-R	TRANSISTOR	1	
Q4632	2SD602A-R	TRANSISTOR	1	
Q4701,02	2SD1328	TRANSISTOR	2	
Q4703,04	2SK198-R	TRANSISTOR	2	
Q4751-54	2SB710A-R	TRANSISTOR	4	
Q4755	2SD1994A-R	TRANSISTOR	1	
Q4756	2SB1322A-R	TRANSISTOR	1	
Q4757	2SD1994A-R	TRANSISTOR	1	
Q4758	2SB1322A-R	TRANSISTOR	1	
Q4759	2SD602A-R	TRANSISTOR	1	
Q4760	2SB710A-R	TRANSISTOR	1	
Q4831	2SD1994A-R	TRANSISTOR	1	
Q4832	2SB1322A-R	TRANSISTOR	1	
Q4833	2SD1994A-R	TRANSISTOR	1	
Q4834	2SB1322A-R	TRANSISTOR	1	
Q4835	2SD602A-R	TRANSISTOR	1	
Q4836	2SB710A-R	TRANSISTOR	1	
Q4901-04	2SD1328	TRANSISTOR	4	
QR4301	UN2213	TRANSISTOR-RESISTOR	1	
QR4302	UN2113	TRANSISTOR-RESISTOR	1	
QR4303	UN2213	TRANSISTOR-RESISTOR	1	
QR4351	UN2213	TRANSISTOR-RESISTOR	1	
QR4401	UN2213	TRANSISTOR-RESISTOR	1	
QR4402	UN2113	TRANSISTOR-RESISTOR	1	
QR4476	UN2213	TRANSISTOR-RESISTOR	1	
QR4477	UN2113	TRANSISTOR-RESISTOR	1	
QR4551	UN2213	TRANSISTOR-RESISTOR	1	
QR4552	UN2113	TRANSISTOR-RESISTOR	1	
QR4626	UN2213	TRANSISTOR-RESISTOR	1	
QR4627	UN2113	TRANSISTOR-RESISTOR	1	
QR4701-03	UN2213	TRANSISTOR-RESISTOR	3	
QR4704,05	UN2113	TRANSISTOR-RESISTOR	2	
QR4751,52	UN2213	TRANSISTOR-RESISTOR	2	
R4231	VLQ0576	COIL	1	
R4232	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4281	VLQ0576	COIL	1	
R4282	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4301	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4302	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4303	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4304-06	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R4307	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4308-11	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	4	
R4314	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4316-18	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	3	
R4319,20	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	2	
R4321	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R4322	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R4323	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4324	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R4325	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R4326	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4327	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4328	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R4329	ERJ6RBD561	M.RESISTOR CH 1/10W 560	1	
R4330	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4331	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4332	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R4333	ERJ6RBD561	M.RESISTOR CH 1/10W 560	1	
R4334	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4335,36	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4337	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	1	
R4351	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4352	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4353	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4354-56	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4357	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4358-61	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	4	
R4364	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4366-68	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	3	
R4369,70	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	2	
R4371	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R4372	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R4373	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4374	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R4375	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R4376	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4377	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4378	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R4379	ERJ6RBD561	M.RESISTOR CH 1/10W 560	1	
R4380	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4381	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4382	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R4383	ERJ6RBD561	M.RESISTOR CH 1/10W 560	1	
R4384	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4385,86	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4401	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4402	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4403	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R4404	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R4405	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4406	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4407	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	1	
R4408	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4409	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4410	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4411	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4412	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4413	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R4414	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4415	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4416	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4417	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4418	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4419	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4420	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4421-24	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	4	
R4425	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4426	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4427	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4428,29	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	2	
R4430	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R4431	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4433	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4434	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4435	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4436	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4437,38	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	2	
R4439,40	ERJ14YJ100	M.RESISTOR CH 1/4W 10	2	
R4441	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R4442,43	ERJ14YJ100	M.RESISTOR CH 1/4W 10	2	
R4444	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R4445,46	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4447,48	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R4449	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4450,51	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	2	
R4452	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4453	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4454	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4455	ERJ6RBD512	M.RESISTOR CH 1/10W 5.1K	1	
R4456	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4476	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4477	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R4478	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R4479	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	1	
R4480	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4481	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4482	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4483	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4484	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4485	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4486	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4487	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4488	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R4489	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4490	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4491	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4492	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4493	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4494	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4495	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4496-99	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	4	
R4500	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4501	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4502	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4503	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4504,05	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	2	
R4506	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R4507	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4509	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4510	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4511	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4512	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4513	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4514,15	ERJ14YJ100	M.RESISTOR CH 1/4W 10	2	
R4516	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R4517,18	ERJ14YJ100	M.RESISTOR CH 1/4W 10	2	
R4519	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R4520,21	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4522,23	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R4524	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4525	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4526	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4527	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4528	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4529	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4530	ERJ6RBD512	M.RESISTOR CH 1/10W 5.1K	1	
R4531	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4551	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4552	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4553	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R4554	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R4555	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4556	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4557	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	1	
R4558	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4559	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4560	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4561	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4562	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4563	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R4564	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4565	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4566	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4567	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4568	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4569	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4570	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4571-74	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	4	
R4575	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4576	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4577	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4578,79	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	2	
R4580	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R4581	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4583	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4584	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4585	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4586	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4587,88	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	2	
R4589,90	ERJ14YJ100	M.RESISTOR CH 1/4W 10	2	
R4591	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R4592,93	ERJ14YJ100	M.RESISTOR CH 1/4W 10	2	
R4594	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R4595,96	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4597,98	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4599	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4600,01	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	2	
R4602	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4603	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4604	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4605	ERJ6RBD512	M.RESISTOR CH 1/10W 5.1K	1	
R4606	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4626	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4627	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R4628	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R4629	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	1	
R4630	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4631	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4632	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4633	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4634	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4635	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4636	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4637	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4638	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R4639	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4640	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4641	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4642	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4643	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4644	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4645	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4646-49	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	4	
R4650	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4651	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4652	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4653	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4654,55	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	2	
R4656	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R4657	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4659	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4660	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4661	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4662	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4663	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4664,65	ERJ14YJ100	M.RESISTOR CH 1/4W 10	2	
R4666	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R4667,68	ERJ14YJ100	M.RESISTOR CH 1/4W 10	2	
R4669	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R4670,71	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4672,73	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R4674	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4675	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4676	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4677	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4678	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4679	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4680	ERJ6RBD512	M.RESISTOR CH 1/10W 5.1K	1	
R4681	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4701,02	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R4703,04	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4705-10	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	6	
R4713	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	1	
R4714	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4716	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	1	
R4717	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4718,19	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	2	
R4720	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4721	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	1	
R4722	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4723	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4724	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4725	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	1	
R4726	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R4727	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R4728	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4729	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4730	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4731	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R4732	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4733	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4734	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4735	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4736	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4737	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4738	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4739	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4740,41	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4742	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R4743	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R4744	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4745	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R4746	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R4747	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4751	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4752	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R4753	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4754	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4755	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4756	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4757,58	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R4759	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4760	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4761	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4762	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4763	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4764	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4765	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4766	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R4767	ERJ6RED220	M.RESISTOR CH 1/10W 22	1	
R4768	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4769	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4770	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R4771	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4772	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4773	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4774	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4775-77	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R4778	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4779	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R4780	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4781-84	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	4	
R4785	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4786	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4787	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4788-90	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	3	
R4791	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R4793	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4794	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4795	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4796,97	ERJ14YJ100	M.RESISTOR CH 1/4W 10	2	
R4798,99	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	2	
R4800,01	ERJ14YJ100	M.RESISTOR CH 1/4W 10	2	
R4802	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4803,04	ERJ14YJ220	M.RESISTOR CH 1/4W 22	2	
R4805,06	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4807,08	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R4809,10	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	2	
R4811,12	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4813	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4814	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4815	ERJ6RBD512	M.RESISTOR CH 1/10W 5.1K	1	
R4816	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4831	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4832	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R4833	ERJ6RED220	M.RESISTOR CH 1/10W 22	1	
R4834	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4835	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R4836	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4837-39	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R4840	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4841	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4842	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4843	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4844	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4845	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4846	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R4847-50	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	4	
R4851,52	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	2	
R4853	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4854-56	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	3	
R4857	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R4859	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4860	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4861	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4862,63	ERJ14YJ100	M.RESISTOR CH 1/4W 10	2	
R4864,65	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	2	
R4866,67	ERJ14YJ100	M.RESISTOR CH 1/4W 10	2	
R4868	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4869,70	ERJ14YJ220	M.RESISTOR CH 1/4W 22	2	
R4871,72	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4873,74	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R4875,76	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	2	
R4877,78	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4879	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4880	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4881	ERJ6RBD512	M.RESISTOR CH 1/10W 5.1K	1	
R4882	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4901,02	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R4903,04	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R4905	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4906	ERJ14YJ151	M.RESISTOR CH 1/4W 150	1	
R4908	ERJ14YJ151	M.RESISTOR CH 1/4W 150	1	
R4910	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4911,12	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R4914	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4916	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4921	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4922	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R4923	ERJ6RBD561	M.RESISTOR CH 1/10W 560	1	
R4924	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4925	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4926	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R4927	ERJ6RBD561	M.RESISTOR CH 1/10W 560	1	
R4928	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4929-31	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R4932,33	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4934-42	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	9	
R4943-46	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	4	
R4948-50	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	3	
R4951,52	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4957	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
TG4301	VJR0646	TEST POINT	1	
TG4351	VJR0646	TEST POINT	1	
TP4301,02	VJR0646	TEST POINT	2	
TP4351,52	VJR0646	TEST POINT	2	
TP4401	VJR0646	TEST POINT	1	
TP4476	VJR0646	TEST POINT	1	
TP4551	VJR0646	TEST POINT	1	
TP4626	VJR0646	TEST POINT	1	
TP4701-04	VJR0646	TEST POINT	4	
VR4401	VRV0112B103	V.RESISTOR 10K	1	
VR4402	VRV0109B501	V.RESISTOR 500	1	
VR4476	VRV0112B103	V.RESISTOR 10K	1	
VR4477	VRV0109B501	V.RESISTOR 500	1	
VR4551	VRV0112B103	V.RESISTOR 10K	1	
VR4552	VRV0109B501	V.RESISTOR 500	1	
VR4626	VRV0112B103	V.RESISTOR 10K	1	
VR4627	VRV0109B501	V.RESISTOR 500	1	
VR4701,02	VRV0112B103	V.RESISTOR 10K	2	
VR4751	VRV0109B501	V.RESISTOR 500	1	
VR4831	VRV0109B501	V.RESISTOR 500	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E10	VEP84302B	H1 CUE P.C.BOARD	1	(RTL)
C4008	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4009	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4010	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4011	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4012	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4013	ECST1VY684Z	T.CAPACITOR CH 35V 0.68U	1	
C4014,15	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C4016	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C4017	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4018	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4019	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C4020	ECUX1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4021	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4022	ECUX1C394KBM	C.CAPACITOR CH 16V 0.39U	1	
C4023	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4024,25	ECUX1C394KBM	C.CAPACITOR CH 16V 0.39U	2	
C4026-28	ECHU1C104JB	P.CAPACITOR 16V 0.1U	3	
C4029	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C4030	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C4031	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4032,33	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4034	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4035	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C4036	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4037	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C4038	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4039,40	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4041	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4042	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C4043	ECUM1H822KBN	C.CAPACITOR CH 50V 8200P	1	
C4044	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4045	ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C4046	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4047	ECUX1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C4048	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4049	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4050	ECHU1C104JB	P.CAPACITOR 16V 0.1U	1	
C4101	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4103	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C4106	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C4118	ECEV0JV220Q	E.CAPACITOR CH6.3V 22U	1	
C4119	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4120,21	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4122	ECEV0JV220Q	E.CAPACITOR CH6.3V 22U	1	
C4123-25	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C4126	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C4127,28	ECEV0JV220Q	E.CAPACITOR CH6.3V 22U	2	
C4129	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4130	ECEV0JV220Q	E.CAPACITOR CH6.3V 22U	1	
C4139	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4140,41	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4142	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4143-46	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C4201,02	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4203	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C4204,05	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C4206	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4207	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C4208	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4209,10	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C4211	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4212	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4213	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4214	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4215	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4216,17	ECEA1CGE101	E.CAPACITOR 16V 100U	2	
C4218	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4219	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4220	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4221	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4222	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4247	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4303-06	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C4307,08	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4401	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4402	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4403	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4404-06	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C4407	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4408	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4409	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4410-13	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C4414	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4415	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4416	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4417	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4418	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
D4102	MA157	DIODE	1	
D4201,02	MA157	DIODE	2	
FL4002	VLF1069	FILTER	1	
IC4003	CXA1102M	IC	1	
IC4004,05	NJM4580ED	IC	2	
IC4006	MC14052BF	IC	1	
IC4008	NJM4580ED	IC	1	
IC4009	AN78N09	IC	1	
IC4010	AN79N09	IC	1	
IC4011,12	NJM4580ED	IC	2	
IC4013	MC14053BF	IC	1	
IC4014	NJM4580ED	IC	1	
IC4015	MC14053BDT	IC	1	
IC4101	AD7945BR	IC	1	
IC4103	NJM4580ED	IC	1	
IC4106	MC14053BF	IC	1	
IC4108	XC62AP3002P	IC	1	
IC4109	AK4503VF	IC	1	
IC4110	T74VHCT244F	IC	1	
IC4111	T74VHC244F	IC	1	
IC4115	NJM78L05UA	IC	1	
IC4116	NJM79L05UA	IC	1	
IC4117	MC14053BF	IC	1	
IC4201	MC14052BF	IC	1	
IC4202	NJM4580ED	IC	1	
IC4203	NJM2043MD	IC	1	
IC4204,05	AQV212SX	IC	2	
IC4207	TC4W53F	IC	1	
IC4301,02	SN74S1051NS	IC	2	
IC4303	74F245SJ	IC	1	
IC4304	74F541SJ	IC	1	
IC4305	74AC139SJ	IC	1	
IC4306	TC7SU04F	IC	1	
IC4307,08	UPD71055GB	IC	2	
IC4401	TC4W53F	IC	1	
IC4402	MC74HC74AF	IC	1	
IC4403	MC74HC541AF	IC	1	
IC4404	MB621926	IC	1	
IC4405	MB81480070	IC	1	
IC4406	NJM78L05UA	IC	1	
IC4407	AK4320VM	IC	1	
IC4408	TC4W53F	IC	1	
P4001	VJP3454B096	CONNECTOR (MALE)	1	
P4002	VJP1230T	CONNECTOR (MALE) 3P	1	
Q4001,02	2SD1149-R	TRANSISTOR	2	
Q4003	2SB792-R	TRANSISTOR	1	
Q4201	2SD1994A-R	TRANSISTOR	1	
Q4202	2SB1322A-R	TRANSISTOR	1	
Q4203	2SD1994A-R	TRANSISTOR	1	
Q4204	2SB1322A-R	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q4205	2SD602A-R	TRANSISTOR	1	
Q4206	2SB710A-R	TRANSISTOR	1	
QR4001	UN2213	TRANSISTOR-RESISTOR	1	
QR4201	UN2213	TRANSISTOR-RESISTOR	1	
R4013	ERJ6RBD433	M.RESISTOR CH 1/10W 43K	1	
R4014,15	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4016	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4017	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4018	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4022	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4023	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4025	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4026	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R4027	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4028	ERJ6GEYF124	M.RESISTOR CH 1/10W 120K	1	
R4029	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4030	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	1	
R4031	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R4032	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4033,34	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R4035	ERJ6RBD152	M.RESISTOR CH 1/10W 1.5K	1	
R4036	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R4037	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4038	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4039,40	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	2	
R4041	ERJ6RBD823	M.RESISTOR CH 1/10W 82K	1	
R4044	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4045	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4046	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4047,48	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4049	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4051	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4052	ERJ6RBD202	M.RESISTOR CH 1/10W 2K	1	
R4053	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4054	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4055	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4056	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4057	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4058,59	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R4060,61	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R4064-66	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R4068,69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4071	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4072	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4081	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4082	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	1	
R4083	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4085	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4092	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4094	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4096	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4101	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4102	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4103	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4110	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4118	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4119	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4121	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4131,32	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	2	
R4134	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4135	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4136	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R4137,38	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4139,40	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R4142	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4164	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4165	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4166	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4169	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4172	ERJ6RBD152	M.RESISTOR CH 1/10W 1.5K	1	
R4173	ERJ6RBD471	M.RESISTOR CH 1/10W 470	1	
R4174	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4175	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4176	ERJ6RBD561	M.RESISTOR CH 1/10W 560	1	
R4177	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4178	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R4179	ERJ6RBD561	M.RESISTOR CH 1/10W 560	1	
R4201	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4202	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4203	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R4204	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4205	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4206	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4207	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4208	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4209	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4210	ERJ6RBD271	M.RESISTOR CH 1/10W 270	1	
R4211	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4212	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4213	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4214,15	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	2	
R4216	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4217	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4218,19	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	2	
R4220	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4221	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4222	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4223,24	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	2	
R4225	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4226,27	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	2	
R4228-31	ERJ14YJ100	M.RESISTOR CH 1/4W 10	4	
R4232,33	ERJ14YJ220	M.RESISTOR CH 1/4W 22	2	
R4234	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4235,36	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4237	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4238,39	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	2	
R4240,41	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4242	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4243	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4279,80	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4281	ERJ6RBD512	M.RESISTOR CH 1/10W 5.1K	1	
R4282	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4283	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R4284	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R4285	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4301,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4303-16	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	14	
R4401	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4402	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4403-06	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	4	
R4407	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4408	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4409	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4410	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4411-13	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R4414,15	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R4417-20	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R4421	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4423	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4425	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4427	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4430	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
SW4002	VSS0342	SWITCH	1	
TG4101	VJR0646	TEST POINT	1	
TP4001	VJR0646	TEST POINT	1	
TP4101-03	VJR0646	TEST POINT	3	
TP4201	VJR0646	TEST POINT	1	
VR4002	VRV0064B503	V.RESISTOR 50K	1	
VR4003	VRV0112B502	V.RESISTOR 5K	1	
VR4005	VRV0112B203	V.RESISTOR 20K	1	
VR4006	VRV0112B103	V.RESISTOR 10K	1	
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E11-13	VEP85177A	H2/H3/H4 EQUALIZER P.C.BOARD	1	(RTL)
C5001,02	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	2	
C5003-09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C5010	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5011	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C5012	ECUX1E681JCV	C.CAPACITOR CH 25V 680P	1	
C5013	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5015	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C5016	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C5018	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5020	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C5023	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5024	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C5025-29	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C5030,31	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C5032-45	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	14	
C5046	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C5047,48	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5050	ECUX1H182KBV	C.CAPACITOR CH 50V 1800P	1	
C5051-55	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C5056	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C5057-63	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C5064,65	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	2	
C5066-72	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C5073	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C5074-79	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C5081	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5082-85	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	4	
C5086-92	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C5093	ECUX1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C5094	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5095	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C5098	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5100-02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5103	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C5104-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C5111-14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5115	ECUX1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C5116	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5117-24	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	8	
C5125	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C5126-29	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5130	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5131-40	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C5142-48	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C5149	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C5150,51	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5301,02	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	2	
C5303-09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C5310	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5311	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C5312	ECUX1E681JCV	C.CAPACITOR CH 25V 680P	1	
C5313	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5315	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C5316	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C5318	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5320	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C5323	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5324	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C5325-29	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C5330,31	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C5332-45	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	14	
C5346	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C5347,48	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5350	ECUX1H182KBV	C.CAPACITOR CH 50V 1800P	1	
C5351,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5355	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5356	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C5357-63	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C5364,65	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	2	
C5366-72	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C5373	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C5374-79	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C5381	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5382-85	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	4	
C5386-92	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C5393	ECUX1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C5394	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5395	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C5398	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5400-02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5403	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C5404-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C5411-14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5415	ECUX1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C5416	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5417-24	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	8	
C5425	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C5426-29	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5430	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5431-40	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C5442-44	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5451	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5601-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	30	
C5640	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5641	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5642	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C5643	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5644,45	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C5646	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5647	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C5648	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5649,50	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C5651	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5652	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C5654	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5655	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5656	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C5658	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5659	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5660	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5661	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C5662	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C5663	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5664	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5665-67	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5668	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
D5001	MA142WK	DIODE	1	
D5004	MA142WK	DIODE	1	
D5301	MA142WK	DIODE	1	
FL5601-06	VLF0931	FILTER	6	
IC5001	UPC1663G	IC	1	
IC5002	NJM1496M	IC	1	
IC5003	NJM084V	IC	1	
IC5004	NJM319V	IC	1	
IC5005	TC7S04F	IC	1	
IC5006	AN3730FA	IC	1	
IC5007	AN3740FAP	IC	1	
IC5008	NJM082BV	IC	1	
IC5009	THC4066FT	IC	1	
IC5010	UPC1663G	IC	1	
IC5011	AD9057BRS	IC	1	
IC5012	TC6326AF	IC	1	
IC5013	NJM084V	IC	1	
IC5014	T74LCX244F	IC	1	
IC5015	MC10H124M	IC	1	
IC5016	S80730ANDT	IC	1	
IC5017	NVHC244F	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC5301	UPC1663G	IC	1	
IC5302	NJM1496M	IC	1	
IC5303	NJM084V	IC	1	
IC5305	TC7S04F	IC	1	
IC5306	AN3730FA	IC	1	
IC5307	AN3740FAP	IC	1	
IC5308	NJM082BV	IC	1	
IC5309	THC4066FT	IC	1	
IC5310	UPC1663G	IC	1	
IC5311	AD9057BRS	IC	1	
IC5312	TC6326AF	IC	1	
IC5313	NJM084V	IC	1	
IC5600	NVHC244F	IC	1	
IC5601	M62370GP	IC	1	
IC5602-04	THC4053FT	IC	3	
IC5605,06	NJM084V	IC	2	
IC5607	AN7805F	IC	1	
IC5608	AN7905F	IC	1	
IC5609	LT1086CM	IC	1	
IC5610	XC62AP3202P	IC	1	
L5001	VLQ0188K1R0N	COIL 1UH	1	
L5002,03	VLQ0163KR39	COIL 0.39UH	2	
L5005-11	VLQ0771R10K	COIL 1UH	7	
L5301	VLQ0188K1R0N	COIL 1UH	1	
L5302,03	VLQ0163KR39	COIL 0.39UH	2	
L5305-11	VLQ0771R10K	COIL 1UH	7	
L5601,02	ELESE4R7JA	COIL 4.7UH	2	
P5001	VJP3454B096	CONNECTOR (MALE)	1	
P5002	VJP1230T	CONNECTOR (MALE) 3P	1	
P5003	VJP1230R	CONNECTOR (MALE)	1	
Q5001	XN6537	TRANSISTOR-RESISTOR	1	
Q5002,03	2SC3930-B	TRANSISTOR	2	
Q5004	XN5531	TRANSISTOR-RESISTOR	1	
Q5005	2SC3930-B	TRANSISTOR	1	
Q5006	XN5531	TRANSISTOR-RESISTOR	1	
Q5007,08	2SK508K512	TRANSISTOR	2	
Q5009-11	2SC3930-B	TRANSISTOR	3	
Q5012,13	2SK508K512	TRANSISTOR	2	
Q5014,15	XN5531	TRANSISTOR-RESISTOR	2	
Q5016-19	2SC3930-B	TRANSISTOR	4	
Q5020	2SD1819A	TRANSISTOR	1	
Q5021	XN5531	TRANSISTOR-RESISTOR	1	
Q5022	2SA1532-C	TRANSISTOR	1	
Q5023	2SC3930-B	TRANSISTOR	1	
Q5024	XN5531	TRANSISTOR-RESISTOR	1	
Q5301	XN6537	TRANSISTOR-RESISTOR	1	
Q5302,03	2SC3930-B	TRANSISTOR	2	
Q5304	XN5531	TRANSISTOR-RESISTOR	1	
Q5305	2SC3930-B	TRANSISTOR	1	
Q5306	XN5531	TRANSISTOR-RESISTOR	1	
Q5307,08	2SK508K512	TRANSISTOR	2	
Q5309-11	2SC3930-B	TRANSISTOR	3	
Q5312,13	2SK508K512	TRANSISTOR	2	
Q5314,15	XN5531	TRANSISTOR-RESISTOR	2	
Q5316-19	2SC3930-B	TRANSISTOR	4	
Q5320	2SD1819A	TRANSISTOR	1	
Q5321	XN5531	TRANSISTOR-RESISTOR	1	
Q5322	2SA1532-C	TRANSISTOR	1	
Q5323	2SC3930-B	TRANSISTOR	1	
Q5324	XN5531	TRANSISTOR-RESISTOR	1	
Q5601	2SB710A-R	TRANSISTOR	1	
Q5602	2SB956-R	TRANSISTOR	1	
R5001,02	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5003	ERJ3RED560	M.RESISTOR CH 1/16W 56	1	
R5004,05	ERJ3RBD271	M.RESISTOR CH 1/16W 270	2	
R5006	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R5007,08	ERJ3RBD331	M.RESISTOR CH 1/16W 330	2	
R5009,10	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5011,12	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	2	
R5013,14	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5015,16	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5017,18	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R5019	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5020	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R5021	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5022-24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5025,26	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5027,28	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	2	
R5029	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
R5030	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5031	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R5032	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
R5033	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5034	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R5035	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5036	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R5037	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
R5038	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R5039	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5040	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5041	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5042	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5043	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5044	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5045	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5046,47	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5048,49	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R5050,51	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5052	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5053	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5054	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
R5055	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5056-58	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	3	
R5059,60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5061,62	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5063,64	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R5065,66	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5067,68	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5069,70	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R5071	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5072	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5073	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5074	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5075	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5076-79	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R5080	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5081	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5082-85	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	4	
R5086	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5087	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R5088	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R5089,90	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	2	
R5091	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5092	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5093-96	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5097-99	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R5100	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R5101,02	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5103	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5104	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R5105	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5106	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R5107	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R5108	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5109	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5110	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5111	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5112	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R5113	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5114,15	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5116,17	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5118,19	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R5120	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5121	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5122	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5123	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5124	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5125	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5126,27	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5129	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5130	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5131	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5132	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5133	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5134,35	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R5136	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R5137	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R5138	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R5139	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5140	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5141	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R5142	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5143	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5146	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R5147	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5148	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R5149	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R5150	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5151	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R5152	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5154	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5155	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5156	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5157	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5158,59	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5160,61	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5162	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5163	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5164	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5165	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5166	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R5167	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5168,69	ERJ3RED360	M.RESISTOR CH 1/16W 36	2	
R5170,71	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5172	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5173,74	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R5175	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5176,77	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5179	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5181-84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5185,86	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R5187,88	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5189	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5190,91	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R5192,93	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5194	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5197	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5198	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5199	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5200	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5201	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R5203	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5204,05	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R5210-14	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R5215-19	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	5	
R5220	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R5221	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5222	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5301,02	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5303	ERJ3RED560	M.RESISTOR CH 1/16W 56	1	
R5304,05	ERJ3RBD271	M.RESISTOR CH 1/16W 270	2	
R5306	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R5307,08	ERJ3RBD331	M.RESISTOR CH 1/16W 330	2	
R5309,10	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5311,12	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	2	
R5313,14	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5315,16	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5317,18	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R5319	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5320	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R5321	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5322-24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5325,26	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5327,28	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	2	
R5329	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
R5330	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5331	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R5332	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
R5333	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5334	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R5335	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5336	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R5337	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
R5338	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R5339	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5340	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5341	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5342	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5343	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5344	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5345	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5346,47	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5348,49	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R5350,51	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5352	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5353	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5354	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
R5355	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5356-58	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	3	
R5359,60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5361,62	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5363,64	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R5365,66	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5367,68	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5369,70	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R5371	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5372	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5373	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5374	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5375	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5376-79	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R5380	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5381	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5382-85	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	4	
R5386	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5387	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R5388	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R5389,90	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	2	
R5391	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5392	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5393-96	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5397-99	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R5400	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R5401,02	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5403	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5404	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R5405	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5406	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R5407	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R5408	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5409	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5410	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5411	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5412	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R5413	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5414,15	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5416,17	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5418,19	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R5420	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5421	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5422	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5423	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5424	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5425	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5426,27	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5429	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5430	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5431	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5432	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5433	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5434,35	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R5436	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R5437	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R5438	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R5439	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5440	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5441	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R5442	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5443	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5446	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R5447	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5448	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R5449	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R5450	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5451	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R5452	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5454	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5455	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5456	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5457	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5458,59	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5460,61	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5462	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5463	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5464	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5465	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5466	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R5467	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5468,69	ERJ3RED360	M.RESISTOR CH 1/16W 36	2	
R5470,71	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5472	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5473,74	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R5475	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5476,77	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5479	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5481-84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5485,86	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R5487,88	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5489	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5490,91	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R5492,93	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5494	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5497	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5498	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5499	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5500	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5501	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R5503	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5504,05	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R5514	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5519	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5522	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5601-03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R5604,05	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5606-08	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R5609-11	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R5612-14	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	3	
R5615-18	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R5619-21	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	3	
R5622-39	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	18	
R5640	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5641	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5642	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5643	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5644	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5645	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R5646	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5647	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R5648	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5649	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5650	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5651	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R5652	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5653	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5654	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5655	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5656	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5657	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5658	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5659	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R5660	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5661	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R5662	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5663	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5664	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5665	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R5666	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5667	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5670	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5671-75	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R5676	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5677-84	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
R5685	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5686	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R5687	ERJ14YJ180	M.RESISTOR CH 1/4W 18	1	
R5688	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	1	
R5689-91	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R5692-95	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
RY5001	VSY2069	RELAY	1	
RY5301	VSY2069	RELAY	1	
TG5001-05	VJR0646	TEST POINT	5	
TP5001,02	VJR0646	TEST POINT	2	
TP5010,11	EYF6CU	TEST POINT	2	
TP5015,16	EYF6CU	TEST POINT	2	
TP5017-20	VJR0646	TEST POINT	4	
TP5050-55	VJR0646	TEST POINT	6	
TP5100-05	VJR0646	TEST POINT	6	
VR5001	EVMEASA00B24	V.RESISTOR 20K	1	
VR5301	EVMEASA00B24	V.RESISTOR 20K	1	
		MISCELLANEOUS		
	VSC3626	HEAT SINK (A)	2	
	XNG3BS	NUT	2	
	XYN3+F12S	SCREW	2	
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E14	VEP85174A	HEAD AMP P.C.BOARD	1	(RTL)
C5001	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5002	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C5003	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5004	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C5005	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5006-11	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	6	
C5051-62	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	12	
C5100-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	12	
C5200-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	12	
C5300-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	12	
C5400-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	12	
C5500-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	12	
C5600-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	12	
FL5001-03	VLF1016A470	FILTER	3	
IC5001-03	XC62AP5002P	IC	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC5004,05	XC62DN5002P	IC	2	
IC5010	MC74HC04AF	IC	1	
IC5100	UPC5102GS030	IC	1	
IC5200	UPC5102GS030	IC	1	
IC5300	UPC5102GS030	IC	1	
IC5400	UPC5102GS030	IC	1	
IC5500	UPC5102GS030	IC	1	
IC5600	UPC5102GS030	IC	1	
P5001	VJS3375B060	CONNECTOR (FEMALE)	1	
P5002	VJS3900C013	CONNECTOR (FEMALE)	1	
P5003	VJS3900A024	IC	1	
Q5100,01	XN5531	TRANSISTOR-RESISTOR	2	
Q5200,01	XN5531	TRANSISTOR-RESISTOR	2	
Q5300,01	XN5531	TRANSISTOR-RESISTOR	2	
Q5400,01	XN5531	TRANSISTOR-RESISTOR	2	
Q5500,01	XN5531	TRANSISTOR-RESISTOR	2	
Q5600,01	XN5531	TRANSISTOR-RESISTOR	2	
R5100	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5101,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5103	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5104,05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5106,07	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5108,09	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5110	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R5111,12	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5113	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R5114	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5115,16	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5200	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5201,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5203	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5204,05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5206,07	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5208,09	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5210	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R5211,12	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5213	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R5214	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5215,16	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5300	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5301,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5303	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5304,05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5306,07	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5308,09	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5310	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R5311,12	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5313	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R5314	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5315,16	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5400	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5401,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5403	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5404,05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5406,07	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5408,09	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5410	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R5411,12	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5413	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R5414	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5415,16	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5500	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5501,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5503	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5504,05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5506,07	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5508,09	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5510	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R5511,12	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5513	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R5514	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5515,16	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5600	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5601,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5603	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5604,05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5606,07	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5608,09	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5610	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R5611,12	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5613	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R5614	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5615,16	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5617-22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
TG5001	VJR0646	TEST POINT	1	
		MISCELLANEOUS		
	VMP5846	RF ANGLE	1	
	XTV3+6FFR	SCREW	2	
	VEE9862	GND CABLE	1	
■ E15	VEP80991A	A/C HEAD I/F P.C.BOARD	1	(RTL)
P1	VJP2278	CONNECTOR (MALE)	1	
P2	VJP1881T	CONNECTOR (MALE)	1	
■ E16	VEP83417B	V/S JACK P.C.BOARD	1	(RTL)
C1,C2	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4	ECA1CXS470	E.CAPACITOR 16V 47U	1	
C5,C6	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C8	ECA1CXS470	E.CAPACITOR 16V 47U	1	
C9,10	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C11	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C12,13	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C14	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C15,16	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C17	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C18,19	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C20	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C21,22	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C23	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C24,25	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C26	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C27	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C28,29	ECA1CXS470	E.CAPACITOR 16V 47U	2	
C30	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C31,32	ECA1CXS470	E.CAPACITOR 16V 47U	2	
C33-38	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	6	
C50,51	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C203	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C204-27	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	24	
C240-42	ECA1CXS100	E.CAPACITOR 16V 10U	3	
C243	ECA1CXS470	E.CAPACITOR 16V 47U	1	
C244	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C250-57	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
D5	MA152K	DIODE	1	
D6-11	MA3130-L	DIODE	6	
D201,02	MA152K	DIODE	2	
IC1	NJM78L09UA	IC	1	
IC2	NJM79L09UA	IC	1	
IC3	NJM78L09UA	IC	1	
IC4	NJM79L09UA	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC5	NJM78L09UA	IC	1	
IC6	NJM79L09UA	IC	1	
IC201,02	MC14021BF	IC	2	
IC203	SN74S1051NS	IC	1	
IC205,06	MC14094BF	IC	2	
IC207	MC14050BF	IC	1	
IC208	MC14049UBF	IC	1	
IC209	NJM78L09UA	IC	1	
IC210	NJM79L09UA	IC	1	
J2,J3	VJS3901	CONNECTOR (FEMALE)	2	
J4,J5	VJS3902	CONNECTOR (FEMALE)	2	
J14,15	VJP3414A009	CONNECTOR (MALE)	2	
J16	VJP3414A015	CONNECTOR (MALE)	1	
J17,18	VJP3414A025	CONNECTOR (MALE)	2	
L1	VLQEL05F101J	COIL 100UH	1	
P1	VJP3375A060	CONNECTOR (MALE)	1	
Q9	2SA1022-C	TRANSISTOR	1	
Q10	2SC2295	TRANSISTOR	1	
Q11	2SB709A-R	TRANSISTOR	1	
Q12,13	2SD601A-R	TRANSISTOR	2	
Q14	2SB709A-R	TRANSISTOR	1	
Q15,16	2SD601A-R	TRANSISTOR	2	
Q17	2SB709A-R	TRANSISTOR	1	
Q18,19	2SD601A-R	TRANSISTOR	2	
Q20	2SB709A-R	TRANSISTOR	1	
Q21,22	2SD601A-R	TRANSISTOR	2	
Q23	2SB709A-R	TRANSISTOR	1	
Q24,25	2SD601A-R	TRANSISTOR	2	
Q26	2SB709A-R	TRANSISTOR	1	
Q27,28	2SD601A-R	TRANSISTOR	2	
Q201-12	UN2214	TRANSISTOR-RESISTOR	12	
R33	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R34	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R35	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R36	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R37,38	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R39	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R40	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R41,42	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R43	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R44	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R45,46	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R47	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R48-50	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R51	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R52	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R53,54	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R55	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R56-58	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R59	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R60	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R61,62	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R63	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R64-66	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R67	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R68	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R69,70	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R71	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R72-74	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R75	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R76	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R77,78	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R79	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R80-82	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R83	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R84	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R85,86	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R87	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R88	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R201,02	ERJ6GEYG682	M.REISITOR CH 1/10W 6.8K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R203	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R204	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R205	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R206	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R207	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R208	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R209-32	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	24	
R241	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R242	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R243	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
⚠ R244	ERQ12HJ2R7	F.RESISTOR 1/2W 2.7	1	
R251-55	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
SW2	VSS0307	SWITCH	1	
		MISCELLANEOUS		
	VMP5684	P.C.BOARD ANGLE	1	
	VMP4866	D SUB ANGLE	1	
	VXQ0102	SCREW	10	
	XTN26+6FFZ	SCREW	4	
	XTN3+10JFZ	SCREW	4	
	XYE3+EF8	SCREW	2	
■ E17	VEP81183A	POWER 1 P.C.BOARD	1	(RTL)
⚠ C1101	ECQU2A224MV	P.CAPACITOR 100V 0.22U	1	
⚠ C1102,03	VCK0262K471A	C.CAPACITOR 470P	2	
⚠ C1104	ECQU2A474MV	P.CAPACITOR 100V 0.47U	1	
⚠ C1105,06	VCK0262K101A	C.CAPACITOR 100P	2	
⚠ C1107,08	VCK0260M152A	C.CAPACITOR 1500P	2	
⚠ C1109	VCK0260M102A	C.CAPACITOR 1000P	1	
C1110,11	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C1112	VCK0293	C.CAPACITOR	1	
C1115,16	VCK0106K471	C.CAPACITOR 470P	2	
C1117,18	ECEC2WC151EB	E.CAPACITOR 450V 150U	2	
C1119,20	VCK0106K471	C.CAPACITOR 470P	2	
C1121	ECA1HXLV100	E.CAPACITOR 50V 10U	1	
C1122	ECA1HXS100	E.CAPACITOR 50V 10U	1	
C1124,25	ECUM1E474ZFM	C.CAPACITOR CH 25V 0.47U	2	
C1126	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1127	ECQV1H684JF	P.CAPACITOR 50V 0.68U	1	
C1128	ECA1HFQ101	E.CAPACITOR 50V 100U	1	
C1129	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C1130	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1131	ECQF6222JZ	P.CAPACITOR 630V 2200P	1	
C1132,33	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C1134	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
D1101	RBV606	DIODE	1	
D1102	TM1661S-L	DIODE	1	
D1103	U1GU44	DIODE	1	
D1104	FML-36S	DIODE	1	
D1105,06	ERA15-08	DIODE	2	
D1107,08	MA3200-M	DIODE	2	
D1110	MA151K	DIODE	1	
D1111-13	U1GU44	DIODE	3	
D1114,15	MA3068-M	DIODE	2	
D1116	MA3200-M	DIODE	1	
D1117	MA151K	DIODE	1	
IC1101	MC33262P	IC	1	
IC1102	M51945BL	IC	1	
IC1103	M51953BL	IC	1	
⚠ L1101	ELF18D850C	FILTER	1	
⚠ L1102,03	ELF18D604F	FILTER	2	
L1105	VLQ0820	COIL	1	
P1101	VJP2638	CONNECTOR (MALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1102,03	VJP2639	CONNECTOR (MALE)	2	
P1104	VJP4033	CONNECTOR (MALE)	1	
Q1101,02	2SK1941-R	TRANSISTOR	2	
Q1105	UN2213	TRANSISTOR-RESISTOR	1	
⚠ R1101	ERC12AGM334	S.RESISTOR 1/2W 330K	1	
⚠ R1102,03	ERU5TEJ100	F.RESISTOR 5W 10	2	
R1104	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1105,06	ERG2SJ220	M.RESISTOR 2W 22	2	
R1107	VRE0206	M.RESISTOR	1	
R1108	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1109	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R1110	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1111	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R1112	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1113	ERJ12YJ473	M.RESISTOR CH 1/2W 47K	1	
R1114	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1115,16	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R1117,18	ERG3SJ333	M.RESISTOR 3W 33K	2	
R1119	ERJ6RBD273	M.RESISTOR CH 1/10W 27K	1	
R1120	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R1122	ERJ12YJ473	M.RESISTOR CH 1/2W 47K	1	
R1123	ERJ14YJ474	M.RESISTOR CH 1/4W 470K	1	
R1125	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1127	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1129	ERJ14YJ474	M.RESISTOR CH 1/4W 470K	1	
R1130	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1131	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R1132	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R1133	ERJ6GEYG390	M.RESISTOR CH 1/10W 39	1	
R1134,35	ERJ14YJ224	M.RESISTOR CH 1/4W 220K	2	
R1136	ERJ14YJ154	M.RESISTOR CH 1/4W 150K	1	
R1137	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1138	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R1139-41	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	
R1142	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R1143,44	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	2	
R1145	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1146	VRT0142	THERMISTOR	1	
R1147	ERG2SJ471	M.RESISTOR 2W 470	1	
R1148-50	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	
R1151	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R1153,54	ERJ12YJ473	M.RESISTOR CH 1/2W 47K	2	
R1155,56	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1158	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1159	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1160	ERJ6RED224	M.RESISTOR CH 1/10W 220K	1	
R1161	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R1162	ERJ6RED334	M.RESISTOR CH 1/10W 330K	1	
R1163	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R1165	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R1166	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
VR1102	VRV0109B501	V.RESISTOR 500	1	
		MISCELLANEOUS		
⚠	VMZ0965	CAPACITOR COVER	3	
⚠	VMZ1608	CAPACITOR COVER	4	
	VSC4708	HEAT SINK (A)	1	
	XYE3+EF8	SCREW	2	
	XYN3+F6FZS	SCREW	1	
	XYN3+F8	SCREW	5	
	XYN3+F10	SCREW	1	
	VJR1008	EARTH LUG	3	
	VJF1348	BINDER	1	
■ E18	VEP81184A	POWER 2 P.C.BOARD	1	(RTL)
C1002,03	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	2	
C1004-07	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1008	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C1009,10	ECA1HXLV220	E.CAPACITOR 50V 22U	2	
C1011	ECA1HXLV010	E.CAPACITOR 50V 1U	1	
C1012	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C1013	ECA1HXLV010	E.CAPACITOR 50V 1U	1	
C1015	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C1016	ECHU1H471GB	P.CAPACITOR 50V 470P	1	
C1017	ECUX1C104KBN	C.CAPACITOR CH 16V 0.1U	1	
C1018	ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	1	
C1019	ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C1020	ECUX1C104KBN	C.CAPACITOR CH 16V 0.1U	1	
C1021	ECHU1H471GB	P.CAPACITOR 50V 470P	1	
C1022	ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C1023	ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	1	
C1024	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1026	ECUM1E474ZFM	C.CAPACITOR CH 25V 0.47U	1	
C1027,28	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C1040,41	EEUFA1A332LE	E.CAPACITOR 10V 3300U	2	
C1042	EEUFA1V471E	E.CAPACITOR 35V 470U	1	
C1043	EEUFA1E332E	E.CAPACITOR 25V 3300U	1	
C1044,45	EEUFA1C222LE	E.CAPACITOR 16V 2200P	2	
C1046	EEUFA1E681E	E.CAPACITOR 25V 680P	1	
C1047,48	ECA1CXL101	E.CAPACITOR 16V 100U	2	
C1049	ECA1VHG471	E.CAPACITOR 35V 100U	1	
C1050	ECA1EXLV101	E.CAPACITOR 25V 100U	1	
C1051-53	ECA1CXL101	E.CAPACITOR 16V 100U	3	
C1054	ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	1	
C1055	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1056	ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	1	
C1059	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1060	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C1062	VCK0106K151	C.CAPACITOR 150P	1	
C1063	ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C1065	VCK0106K151	C.CAPACITOR 150P	1	
C1066	ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C1067,68	ECQE6473KF	P.CAPACITOR 630V 0.047U	2	
C1069-75	ECKD2H101KB	C.CAPACITOR 500V 100P	7	
C1076-78	EEUFA1A822E	E.CAPACITOR 10V 8200P	3	
C1079	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C1080,81	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	2	
C1083	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1085	EEUFA1C222LE	E.CAPACITOR 16V 2200P	1	
C1086	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1087	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1088	EEUFA1A822E	E.CAPACITOR 10V 8200P	1	
C1089	ECA1HXS100	E.CAPACITOR 50V 10U	1	
C1090-93	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C1094	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1095	ECUM1E474ZFM	C.CAPACITOR CH 25V 0.47U	1	
C1096	ECA1CXL101	E.CAPACITOR 16V 100U	1	
C1097,98	ECUM1E474ZFM	C.CAPACITOR CH 25V 0.47U	2	
C1099	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
D1001	MA151WK	DIODE	1	
D1004	MA151K	DIODE	1	
D1005	MA151WK	DIODE	1	
D1007	MA3082-H	DIODE	1	
D1008	MA3051-M	DIODE	1	
D1009	MA153	DIODE	1	
D1010	U1GU44	DIODE	1	
D1011	MA151K	DIODE	1	
D1012	MA3240-H	DIODE	1	
D1013,14	U1GU44	DIODE	2	
D1015	MA3240-H	DIODE	1	
D1016	FMB-G14L	DIODE	1	
D1017	U1GU44	DIODE	1	
D1018,19	MA3051-M	DIODE	2	
D1020-22	MA151K	DIODE	3	
D1023,24	MA3051-M	DIODE	2	
D1030	D30SC4M	DIODE	1	
D1031	FML-G12SP	DIODE	1	
D1032	RL4ZP	DIODE	1	
D1033,34	FML-G12SP	DIODE	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D1035	FMB-G14L	DIODE	1	
D1036	FML-G12SP	DIODE	1	
D1037,38	MA3075-M	DIODE	2	
D1039	MA3240-H	DIODE	1	
D1040	MA3160-L	DIODE	1	
D1041,42	MA3130-L	DIODE	2	
D1043	MA3160-L	DIODE	1	
D1044,45	U05NU44	DIODE	2	
D1046	EG01C	DIODE	1	
D1047	U1GU44	DIODE	1	
D1048	MA3240-H	DIODE	1	
D1049	EG01C	DIODE	1	
D1050	U1GU44	DIODE	1	
D1051	MA3240-H	DIODE	1	
D1052	MA151K	DIODE	1	
IC1001,02	FA5311BP	IC	2	
IC1011,12	UPC1093J	IC	2	
IC1013	UPC393C	IC	1	
IC1014	PQ30RV31	IC	1	
L1012	VL00479	COIL	1	
L1013	VLQ0605	COIL	1	
L1014	VLQ0655K220	COIL	1	
L1015,16	VLQ0605	COIL	2	
L1017	VLQ0354	COIL	1	
L1018	VLQ0655K220	COIL	1	
L1019	VLP0074	COIL	1	
L1021,22	VLP0074	COIL	2	
P1011	VJP2824B003	CONNECTOR (MALE)	1	
P1012	VJP2824B009	CONNECTOR (MALE)	1	
P1013	VJP2824B008	CONNECTOR (MALE)	1	
P1014	VJP1243T	CONNECTOR (MALE) 3P	1	
P1015	VJP4033	CONNECTOR (MALE)	1	
Q1002,03	2SD1478-R	TRANSISTOR	2	
Q1004	2SB710-R	TRANSISTOR	1	
Q1005	UN2213	TRANSISTOR-RESISTOR	1	
Q1006,07	2SB709-R	TRANSISTOR	2	
Q1011,12	2SK2258-01	TRANSISTOR	2	
⚠ Q1013-15	PS2561L1V1WL	TRANSISTOR	3	
Q1017	UN2214	TRANSISTOR-RESISTOR	1	
Q1018	UN2211	TRANSISTOR-RESISTOR	1	
Q1019	UN2111	TRANSISTOR-RESISTOR	1	
⚠ Q1020	PS2561L1V1WL	TRANSISTOR	1	
Q1022	UN2113	TRANSISTOR-RESISTOR	1	
Q1023	UN2213	TRANSISTOR-RESISTOR	1	
Q1024	UN2214	TRANSISTOR-RESISTOR	1	
R1001-05	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	5	
R1006	ERG2SJ681	M.RESISTOR 2W 680	1	
R1007,08	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	2	
R1009	ERJ14YJ4R7	M.RESISTOR CH 1/4W 4.7	1	
R1010	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1011	ERJ6RBD241	M.RESISTOR CH 1/10W 240	1	
R1012,13	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	2	
R1014	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R1016	ERJ14YJ4R7	M.RESISTOR CH 1/4W 4.7	1	
R1017	ERJ6RBD241	M.RESISTOR CH 1/10W 240	1	
R1018,19	ERJ6GEYJ225	M.RESISTOR CH 1/10W 2.2M	2	
R1020	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1021	ERG3SJ333	M.RESISTOR 3W 33K	1	
R1023,24	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	2	
R1026	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	1	
R1027	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R1028	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R1029	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R1030	ERJ6RBD471	M.RESISTOR CH 1/10W 470	1	
R1031	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1033,34	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	2	
R1036	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1037	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R1038	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R1039	ERJ6RBD681	M.RESISTOR CH 1/10W 680	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1040,41	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	2	
R1042	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R1043	ERJ6RBD621	M.RESISTOR CH 1/10W 620	1	
R1044	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R1046,47	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	2	
R1048,49	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R1050	ERG2SJ470	M.RESISTOR 2W 47	1	
R1051,52	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	2	
R1053	ERJ6RBD182	M.RESISTOR CH 1/10W 1.8K	1	
R1054	ERG2SJ470	M.RESISTOR 2W 47	1	
R1055	VRT0142	THERMISTOR	1	
R1056	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R1057	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1058	ERJ6RBD362	M.RESISTOR CH 1/10W 3.6K	1	
R1059	ERJ6RBD471	M.RESISTOR CH 1/10W 470	1	
R1060	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1061	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1062	VRT0033	THERMISTOR	1	
R1063	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R1064,65	ERG2SJ681	M.RESISTOR 2W 680	2	
R1066	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R1067	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	1	
R1068	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1069	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R1070	ERJ6RBD162	M.RESISTOR CH 1/10W 1.6K	1	
R1071	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1072	ERG3SJ333	M.RESISTOR 3W 33K	1	
R1073	ERG2SJ180	M.RESISTOR 2W 18	1	
R1074	ERJ14YJ390	M.RESISTOR 1/4W 39	1	
R1075	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1076	ERW1PKR33	W.RESISTOR 1W 0.33	1	
R1077	ERG3SJ333	M.RESISTOR 3W 33K	1	
R1078	ERG2SJ180	M.RESISTOR 2W 18	1	
R1079	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R1080	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1081	ERW1PKR33	W.RESISTOR 1W 0.33	1	
R1082,83	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R1084	ERJ6RBD132	M.RESISTOR CH 1/10W 1.3K	1	
R1085,86	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R1087	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1088	VRE0206	M.RESISTOR	1	
R1089	ERJ14YJ154	M.RESISTOR CH 1/4W 150K	1	
R1090	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R1091,92	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R1093,94	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1095	ERX2SZJR10	M.RESISTOR 2W 0.1	1	
R1097	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R1098	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1099	ERG3SJ333	M.RESISTOR 3W 33K	1	
⚠ T1001	VLT0899	TRANSFORMER	1	
⚠ T1002	VLT0900	TRANSFORMER	1	
VR1001,02	VRV0112B501	V.RESISTOR 500	2	
		MISCELLANEOUS		
	VLP0394	FERRITE BEAD	8	
	VLP0337	AMORPHOUS BEAD	2	
	VLP0394	FERRITE BEAD	3	
	VSC4779	HEAT SINK (E)	1	
	VSC4778	HEAT SINK (F)	1	
	XYN3+F8	SCREW	14	
	XYN3+F6	SCREW	2	
	VJR1008	EARTH LUG	2	
	XYN3+F10	SCREW	2	
	XYE3+EF8	SCREW	4	
	VSC4707	HEAT SINK	1	
	VMZ2779	INSULATION	1	
	VEE0C18	GND CABLE	1	
	VSC4780	HEAT SINK (D)	1	
	VMZ2919	SHEET	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E19	VEP80A58A	POWER CONNECTION P.C.BOARD	1	(RTL)
		MISCELLANEOUS		
	VJS4033	CONNECTOR	2	
■ E20	VEP82216B	MECA I/F P.C.BOARD	1	(RTL)
C1	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C2-C5	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C6	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C7	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C8	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C9,10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C11	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C13,14	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C15	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C20	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C22	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C100	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C101	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C102	ECA1HEN101	E.CAPACITOR 50V 100U	1	
C103	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C104	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C200-02	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
D1	MA157	DIODE	1	
D100-02	MA738	DIODE	3	
IC1,C2	OP177GS	IC	2	
IC3	NJM4580ED	IC	1	
IC4-C6	UPC4558G2	IC	3	
IC10	NJM78L09UA	IC	1	
IC11	NJM79L09UA	IC	1	
IC100	MC14538BF	IC	1	
L1,L2	VLF1016A470	FILTER	2	
L100	VLP0133	COIL	1	
P1	VJP2891A030	CONNECTOR (MALE)	1	
P2	VJP3418A080	CONNECTOR (MALE)	1	
P11	VJP3172D002	CONNECTOR (MALE)	1	
P12	VJP3172D005	CONNECTOR (MALE)	1	
P13	VJP3172D002	CONNECTOR (MALE)	1	
P14	VJP3172D003	CONNECTOR (MALE)	1	
P15	VJP3518B002	CONNECTOR (MALE)	1	
P16	VJP3518B003	CONNECTOR (MALE)	1	
P17	VJS3801B010	CONNECTOR (FEMALE)	1	
P18	VJP3518B002	CONNECTOR (MALE)	1	
P19	VJP3172D002	CONNECTOR (MALE)	1	
P20	VJP3518B003	CONNECTOR (MALE)	1	
P21	VJP3518B002	CONNECTOR (MALE)	1	
P22	VJP3172D004	CONNECTOR (MALE)	1	
P24	VJP3518B002	CONNECTOR (MALE)	1	
P25	VJP1230T	CONNECTOR (MALE) 3P	1	
P26	VJP1236T	CONNECTOR (MALE) 9P	1	
P30	VJP3172D003	CONNECTOR (MALE)	1	
P32	VJP3172D004	CONNECTOR (MALE)	1	
P33	VJS3406B015	CONNECTOR (FEMALE)	1	
P34,35	VJS2889A017	CONNECTOR (FEMALE)	2	
P36	VJS3406B019	CONNECTOR (FEMALE)	1	
P41	VJP3172D002	CONNECTOR (MALE)	1	
P48	VJP3125B002	CONNECTOR (MALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1	2SB1218A-R	TRANSISTOR	1	
Q100,01	2SB766-R	TRANSISTOR	2	
QR100,01	UN2214	TRANSISTOR-RESISTOR	2	
R1	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R2,R3	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R4	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R5	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R6	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R7	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R8	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R9	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R10	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R11	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R12,13	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R14	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R15	ERJ6RBD823	M.RESISTOR CH 1/10W 82K	1	
R16	ERJ6RBD273	M.RESISTOR CH 1/10W 27K	1	
R17	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R18	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R19	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R20	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R21	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R22	ERJ6RBD473	M.RESISTOR CH 1/10W 47K	1	
R23	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R24	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R25	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R36,37	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R100	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R101	ERJ8GCYJ102	M.RESISTOR CH 1/8W 1K	1	
R102	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R103	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R104	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R105	ERJ8GCYJ102	M.RESISTOR CH 1/8W 1K	1	
R200	ERJ6GEYG752	M.RESISTOR CH 1/10W 7.5K	1	
R201	ERJ6GEYG242	M.RESISTOR CH 1/10W 2.4K	1	
R202	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R203	ERJ6GEYG752	M.RESISTOR CH 1/10W 7.5K	1	
R204	ERJ6GEYG242	M.RESISTOR CH 1/10W 2.4K	1	
R205	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
SW200	VSS023706	SWITCH	1	
VR1	EVMEGSA00B24	V.RESISTOR 20K	1	
VR2	EVMEGSA00B54	V.RESISTOR 50K	1	
■ E21	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
P1	VJP1249T	CONNECTOR (MALE) 9P	1	
P2	VJS2889A012	CONNECTOR (FEMALE)	1	
P3	VJS2889A016	CONNECTOR (FEMALE)	1	
R1-R7	ERDS2TJ221	C.RESISTOR 1/4W 220	7	
■ E22	VEP84303D	AUDIO JACK P.C.BOARD	1	(RTL)
C6-12	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	7	
J7-14	VJP3417	CONNECTOR (MALE)	8	
P1	VJP3375A060	CONNECTOR (MALE)	1	
R26	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R28	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R30	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R32	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R34	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R36	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R38	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R40	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R42	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R44	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R46	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R48	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R50	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R52	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R54	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R56	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
		MISCELLANEOUS		
	VMP4867	XLR GUIDE ANGLE (A)	1	
	XYN26+F8	SCREW	2	
■ E23	VEP84304B	AES/EBU P.C.BOARD	1	(RTL)
J3,J4	VJP3417	CONNECTOR (MALE)	2	
P31	VJP3440B012	CONNECTOR (MALE)	1	
■ E24	VEP83385B	422DA SUB P.C.BOARD	1	(RTL)
C3001,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3003	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3004	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3005	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3006-31	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	26	
C3032	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3033	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3034	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3035	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3036	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3037,38	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C3039-41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3044	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C3045	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3047-50	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3051	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3054,55	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3057	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3058	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3060	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3061	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3062	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3063,64	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3067,68	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3070	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3071	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3073	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3074	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3075	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3076,77	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3078-80	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	3	
C3081-85	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3113	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3115	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3116	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C3118-20	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3124	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3126,27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3129,30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3131	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C3135	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3136	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3137	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3138	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3139,40	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3141	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3142	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3143,44	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C3145,46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3147,48	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C3149-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3155	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3156,57	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3159,60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3161	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C3162	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3163	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3164	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3165	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3167	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3168,69	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C3170	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3172,73	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3203	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C3207	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
D3001	MA152K	DIODE	1	
D3003,04	MA152K	DIODE	2	
FL3001	VLF1423	FILTER	1	
FL3002,03	VLF1424	FILTER	2	
IC3001	SN74ALS244C	IC	1	
IC3002,03	T74VHC244F	IC	2	
IC3004	PZ5128S10BP	IC	1	BLANK ROM
ID3004	VVVS12902		1	SOFTWARE
IC3005	74AC04SJ	IC	1	
IC3006-08	T2242AR2C1	IC	3	
IC3009	PZ5128S10BP	IC	1	BLANK ROM
ID3009	VVVS12902		1	SOFTWARE
IC3010-12	UPD485506G25	IC	3	
IC3013	ADV7122KST50	IC	1	
IC3014	AD589JR	IC	1	
IC3015	NJM084M	IC	1	
IC3016-18	LT1228CS8	IC	3	
IC3030	MC74HC32AF	IC	1	
IC3031	TC7S04F	IC	1	
IC3033	AN78N10	IC	1	
IC3034	AN78N09	IC	1	
IC3036	AN79N09	IC	1	
IC3038	NJM78L05UA	IC	1	
IC3039	NJM79L05UA	IC	1	
IC3040	AN78N05	IC	1	
IC3042	AN79N10	IC	1	
IC3054	PZ5128S10BP	IC	1	BLANK ROM
ID3054	VVVS12902		1	SOFTWARE
L3001	VLP0133	COIL	1	
L3002	VLQ0163J220	COIL 22UH	1	
L3003,04	VLQ0576	COIL	2	
L3005	VLQ0163J220	COIL 22UH	1	
L3013	VLQ0163J470	COIL 47UH	1	
L3015-18	VLP0133	COIL	4	
P3001	VJS3538A080	CONNECTOR (FEMALE)	1	
P3002	VJS3538A052	CONNECTOR (FEMALE)	1	
P3003	VJP3125B007	CONNECTOR (MALE)	1	
Q3002	MSD601-R	TRANSISTOR	1	
Q3004	MSB709-R	TRANSISTOR	1	
Q3005	MSD601-R	TRANSISTOR	1	
Q3006,07	MSB709-R	TRANSISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q3008	MSD601-R	TRANSISTOR	1	
Q3009,10	MSB709-R	TRANSISTOR	2	
Q3011,12	MSD601-R	TRANSISTOR	2	
Q3015,16	MSB709-R	TRANSISTOR	2	
Q3018,19	MSB709-R	TRANSISTOR	2	
Q3022	2SC2404-D	TRANSISTOR	1	
Q3024-26	2SC3757-R	TRANSISTOR	3	
Q3027	MSD601-R	TRANSISTOR	1	
Q3029	MSD601-R	TRANSISTOR	1	
Q3034	MSD601-R	TRANSISTOR	1	
Q3038	2SA1532	TRANSISTOR	1	
R3001,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R3009	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3012,13	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3014-16	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R3023,24	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R3025	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3026,27	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R3028	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3029,30	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R3031	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3033	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3034	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3036	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3038,39	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R3040	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3041,42	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R3043	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3044	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R3045	ERJ3GEYJ511	M.RESISTOR CH 1/16W 510	1	
R3049	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3050	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3051	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3053	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R3054	ERJ3GEYJ241	M.RESISTOR CH 1/16W 240	1	
R3055	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3056	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3058,59	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R3060	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3061,62	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R3063	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3064	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R3068	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3069	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3070	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3072	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R3073	ERJ3GEYJ241	M.RESISTOR CH 1/16W 240	1	
R3074	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3075	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3077	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3084,85	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R3086-91	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	6	
R3092-94	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	3	
R3166	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3168-70	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3171	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3173	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3175	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3176	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3177	ERJ6RBD221	M.RESISTOR CH 1/10W 220	1	
R3185	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R3188	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R3189	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3191	ERJ6RBD181	M.RESISTOR CH 1/10W 180	1	
R3197	ERJ6RED510	M.RESISTOR CH 1/10W 51	1	
R3198	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3199	ERJ6RED560	M.RESISTOR CH 1/10W 56	1	
R3200	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3201	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3202	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3208	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3209	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3212	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3215	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3217-19	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3220	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R3221	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3223	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3225	ERJ6RBD752	M.RESISTOR CH 1/10W 7.5K	1	
R3226	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R3227	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3233	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3234	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3237	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3245	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3248	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3250-59	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	10	
R3260-64	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R3265, 66	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R3267-69	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3274, 75	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3280	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3282	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3283	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R3284	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3288, 89	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3293	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3294, 95	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R3296-99	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R3304-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3310	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3311-17	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	7	
R3318	VRE006608222	V.RESISTOR CH 1/10W 2.2K	1	
R3319, 20	VRE006606472	V.RESISTOR CH 1/10W 4.7K	2	
R3321-29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	9	
R3330	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3331, 32	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3336-39	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	4	
R3340	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3356	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3358-60	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
SW3001	VSS0367-08B	SWITCH	1	
TG3001, 02	EYF6CU	TEST POINT	2	
TP3001-03	EYF6CU	TEST POINT	3	
VR3001	VRV0161B101	V.RESISTOR 100	1	
VR3002	VRV0113B103	V.RESISTOR 10K	1	
VR3003	VRV0113B102	V.RESISTOR 1K	1	
VR3004	VRV0161B101	V.RESISTOR 100	1	
VR3005	VRV0113B102	V.RESISTOR 1K	1	
VR3006	VRV0161B101	V.RESISTOR 100	1	
VR3007-09	VRV0113B501	V.RESISTOR 500	3	
VR3013	VRV0113B102	V.RESISTOR 1K	1	
VR3016, 17	VRV0113B103	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VMS4913	PIN	3	
	XYN3+K6	SCREW	6	
■ E25	VEP80A52B	UP FRONT 1 P.C.BOARD	1	(RTL)
C1	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C2-C5	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C6	ECA1CXS100	E.CAPACITOR 16V 10U	1	
C11	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
D15	LN31GPHL	LED	1	
D16	LN41YPHL	LED	1	
D17	LN81RCPHL	LED	1	
D19	MA152K	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D20	MA142K	DIODE	1	
D22-28	LN31GPHL	LED	7	
IC1	MC14050BF	IC	1	
IC2	MC14049UBF	IC	1	
IC3-C5	MC14094BF	IC	3	
P1	VJP1248T	CONNECTOR (MALE) 8P	1	
P2	VJP1246T	CONNECTOR (MALE) 6P	1	
Q1-18	2SD601A-R	TRANSISTOR	18	
R1, R2	ERJ6GEYG682	M.REISITOR CH 1/10W 6.8K	2	
R3, R4	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R5, R6	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	2	
R7	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R8	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R9	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R10	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R11	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R12	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R13, 14	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	2	
R15	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R16	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R17, 18	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	2	
R19	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R20	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R21, 22	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	2	
R23	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R24	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R25, 26	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	2	
R27	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R28	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R29, 30	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	2	
R31	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R32	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R33, 34	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	2	
R35	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R36	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R37, 38	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	2	
R39	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R40	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R41	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R42	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R43	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R44	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R45	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R46	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R47	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R48	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R49	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R50	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R51	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R52	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R53	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R54	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R55	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R56-58	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	3	
R59	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R60	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R61	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R62	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R63	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R64	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R65	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R66	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R67	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R68	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R69	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R70, 71	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	2	
R72	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R73	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R74, 75	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
		MISCELLANEOUS		
	VGQ2507	LED SPACER	3	
	VMX2147	SPACER	7	
■ E26	VEP80852A	UP FRONT 2 P.C.BOARD	1	(RTL)
D1	VLL0029	LED	1	
P1	VJP1246T	CONNECTOR (MALE) 6P	1	
SW1	VSP0864C001	SWITCH	1	
■ E27	VEP86285B	FRONT CPU P.C.BOARD	1	(RTL)
C1	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C2	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C3	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4,C5	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	2	
C6	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7-14	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	8	
C15	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C16,17	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C20,21	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C22-25	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	4	
C26,27	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C28-37	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	10	
C38,39	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C40-42	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C43-47	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	5	
C48-51	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C52-75	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	24	
C76-81	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	6	
C82	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C84-86	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	3	
C88,89	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C93	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
D1-D8	MA152WK	DIODE	8	
DP1	VE01847	DISPLAY TUBE	1	
FL1-L4	VLF1016A470	FILTER	4	
IC1	HD64180ZRP10	IC	1	
IC2	VSI2975A	IC	1	
IC3	K6256DLG7L	IC	1	
IC4	TL7705CPSB	IC	1	
IC5	74F32SJ	IC	1	
IC6	MC74HC161AF	IC	1	
IC13	MC74HC04AF	IC	1	
IC14	TE7751	IC	1	
IC15	MC74HC138AF	IC	1	
IC16	MC74HC32AF	IC	1	
IC17	SN75C1168NS	IC	1	
IC18	MC74HC4538AF	IC	1	
IC20,21	NJM78L05UA	IC	2	
IC22	MC14015BF	IC	1	
IC23	UPC339G2	IC	1	
IC24	MC74HC04AF	IC	1	
IC25	MC74HC11F	IC	1	
IC26	MC14013BF	IC	1	
IC27	UPD71055GB	IC	1	
IC28,29	MC14516BF	IC	2	
IC30	TLC549IPS	IC	1	
IC31	MC74HC4051F	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC32	TLC549IPS	IC	1	
IC33	MC74HC4051F	IC	1	
IC34-41	NJM2904M	IC	8	
IC42	MC74HC11F	IC	1	
IC43	MC74HC32AF	IC	1	
IS2	VJS2336A032	IC SOCKET	1	
L1-L3	VLP0133	COIL	3	
P1,P2	VJP1942T	CONNECTOR (MALE)	2	
P3,P4	VJP3440A016	CONNECTOR (MALE)	2	
P5	VJP2891A016	CONNECTOR (MALE)	1	
P6	VJS3281A020	CONNECTOR (FEMALE)	1	
P7	VJS2698A028	CONNECTOR (FEMALE)	1	
P8	VJP1233T	CONNECTOR (MALE) 6P	1	
R1	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R2-R7	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	6	
R8-15	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R16	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R17	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R18,19	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R20	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R21-36	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	16	
R37-41	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	5	
R42,43	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R44	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R46	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R48	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R49,50	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R51-54	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	4	
R55-58	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R59-63	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	5	
R64	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R65-69	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	5	
R70-98	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	29	
R99,00	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R101-04	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	4	
R105-07	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R128,29	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R131-56	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	26	
R157	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R158-65	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	8	
R200,01	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	2	
R202,03	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
SW1	VSS0184	SWITCH	1	
X1	VSX0641	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VMX2507	SPACER	2	
	XYN3+K8	SCREW	2	
■ E28	VEP86148D	FRONT CPU SUB P.C.BOARD	1	(RTL)
P1	VJS3406B028	CONNECTOR (FEMALE)	1	
R1-R5	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	5	
SW1-W6	VSS0391	SWITCH	6	
SW10	VSS0391	SWITCH	1	
SW11-13	VSP1013	SWITCH	3	
VR2-R5	VRV0273	V.RESISTOR	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E29	VEP80A49C	FRONT SW P.C.BOARD	1	(RTL)
C1	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4,C5	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C7-11	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	5	
C13	ECEA0JGE102	E.CAPACITOR 6.3V 1000U	1	
C14	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C16	ECEV1HV4R7Q	E.CAPACITOR CH 50V 4.7U	1	
C17	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C18	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C19	ECEA1AGE331	E.CAPACITOR 10V 330U	1	
C20	ECEA1HGE470	E.CAPACITOR 50V 47U	1	
C30,31	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
D2-D5	LN38GCPP	LED	4	
D6	LN28RCPP	LED	1	
D7	LN38GCPP	LED	1	
D9	LN38GCPP	LED	1	
D10	LN48YCPP	LED	1	
D12	LN48YCPP	LED	1	
D13-16	LN38GCPP	LED	4	
D17-25	MA152WA	DIODE	9	
D26,27	MA152A	DIODE	2	
D28-38	MA152WA	DIODE	11	
D39	MA152A	DIODE	1	
D40	MA152WA	DIODE	1	
D44	MA4300	DIODE	1	
D45	MA166	DIODE	1	
D46	MA701A	DIODE	1	
D47	MA4030M	DIODE	1	
DP1	VSL0462	DISPLAY TUBE	1	
F1	EYP2BN135	FUSE	1	
IC1	UPD71055GB	IC	1	
IC2,C3	MC74HC138AF	IC	2	
IC5-C9	MC74HC273AF	IC	5	
IC11	UPD16310GF	IC	1	
P1,P2	VJP1986T	CONNECTOR (MALE)	2	
Q45,46	2SC1815Y	TRANSISTOR	2	
Q47	2SC3074Y	TRANSISTOR	1	
Q48-53	2SB709A-R	TRANSISTOR	6	
QR1-40	UN2214	TRANSISTOR-RESISTOR	40	
R4-11	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	8	
R12-14	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	3	
R15-19	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	5	
R20-26	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	7	
R27-29	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	3	
R30-34	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	5	
R35-42	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	8	
R43-50	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	8	
R51-53	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R110	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R111	ERDS2TJ682	C.RESISTOR 1/4W 6.8K	1	
R112	ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R113	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R114	ERDS2TJ220	C.RESISTOR 1/4W 22	1	
R115	ERJ8GCYJ103	M.RESISTOR CH 1/8W 10K	1	
R120	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R121-28	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R129-40	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	12	
R141	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R142	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R143-45	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
SW1	VSP0791	SWITCH	1	
SW2	VSP0788	SWITCH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
SW3	VSP0792	SWITCH	1	
SW5	VSP0790	SWITCH	1	
SW7	VSP0795	SWITCH	1	
SW8	VSP0864A000	SWITCH	1	
SW11,12	VSP0795	SWITCH	2	
SW15	VSP0999A001	SWITCH	1	
SW17-24	VSP0853A000	SWITCH	8	
SW27,28	VSS0226	SWITCH	2	
SW31	VSS0226	SWITCH	1	
SW32	VSP1005	SWITCH	1	
SW34	VSP1005	SWITCH	1	
SW39-41	VSP1005	SWITCH	3	
TR1	VLT0869	TRANSFORMER	1	
		MISCELLANEOUS		
	VJF1258	HOLDER	1	
	VMX2147	SPACER	13	
■ E30	VEP80A99A	FRONT VR 1 P.C.BOARD	1	(RTL)
P1	VJP1230T	CONNECTOR (MALE) 3P	1	
R6	ERDS2TJ220	C.RESISTOR 1/4W 22	1	
VR6	EWVBB6018B14	V.RESISTOR 10K	1	
		MISCELLANEOUS		
	VMP5945	BARRIER ANGLE	1	
	XTV3+6F	SCREW	1	
	VEE0F84	FRONT VR1 CABLE	1	
■ E31	VEP80B00A	FRONT VR 2 P.C.BOARD	1	(RTL)
FL1-L3	VLF1356	FILTER	3	
J1	VJJ0378	M6 JACK	1	
P1	VJP3440A016	CONNECTOR (MALE)	1	
R1-R5	ERDS2TJ101	C.RESISTOR 1/4W 100	5	
VR1-R5	EVU023006B14	V.RESISTOR 10K	5	
		MISCELLANEOUS		
	VJF1258	HOLDER	1	
	VMX2147	SPACER	13	